

**SONY®**

TRINITRON® COLOR VIDEO MONITOR

**PVM-14L1**

**PVM-14L1MDE**

**PVM-20L1**

**SSM-14L1**

**SSM-20L1**

SERVICE MANUAL

1st Edition (Revised 1)

## **⚠ 警告**

このマニュアルは、サービス専用です。

お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、人身事故につながる可能性があります。

危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

## **⚠ WARNING**

This manual is intended for qualified service personnel only.

To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

## **⚠ WARNUNG**

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.

Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegebenen Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

## **⚠ AVERTISSEMENT**

Ce manuel est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres. Pour toute réparation faire appel à une personne compétente uniquement.

- Equipment energized from an external electrical power source :  
Class I Equipment
- Degree of protection against electric shock :  
No applied part
- Mode of operation :  
Continuous operation

### **WARNING!!**

**AN INSULATED TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.**

### **SAFETY-RELATED COMPONENT WARNING !!**

**COMPONENTS IDENTIFIED BY A ⚠ MARK ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.**

### **ATTENTION!!**

**AFIN D'ÉVITER TOUT RISQUE D'ÉLECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ÊTRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.**

### **ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!**

**LES COMPOSANTS IDENTIFIÉS PAR UNE MAPQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDiqué DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.**

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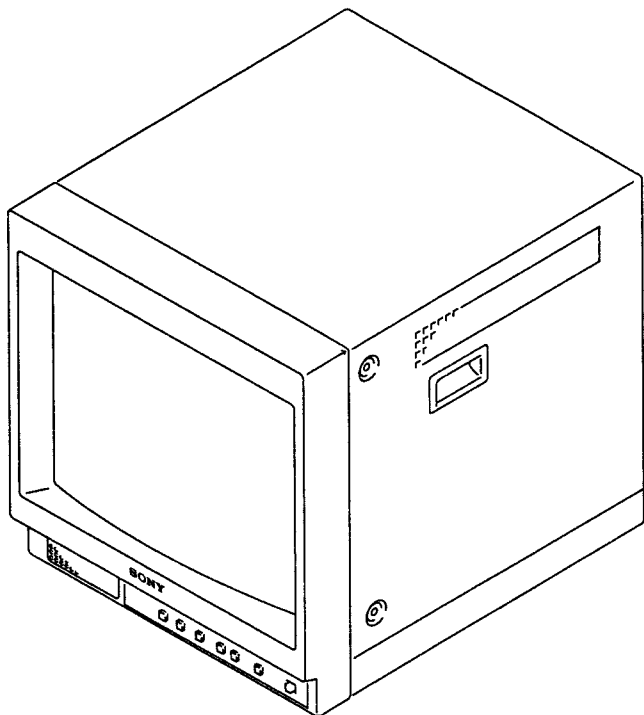
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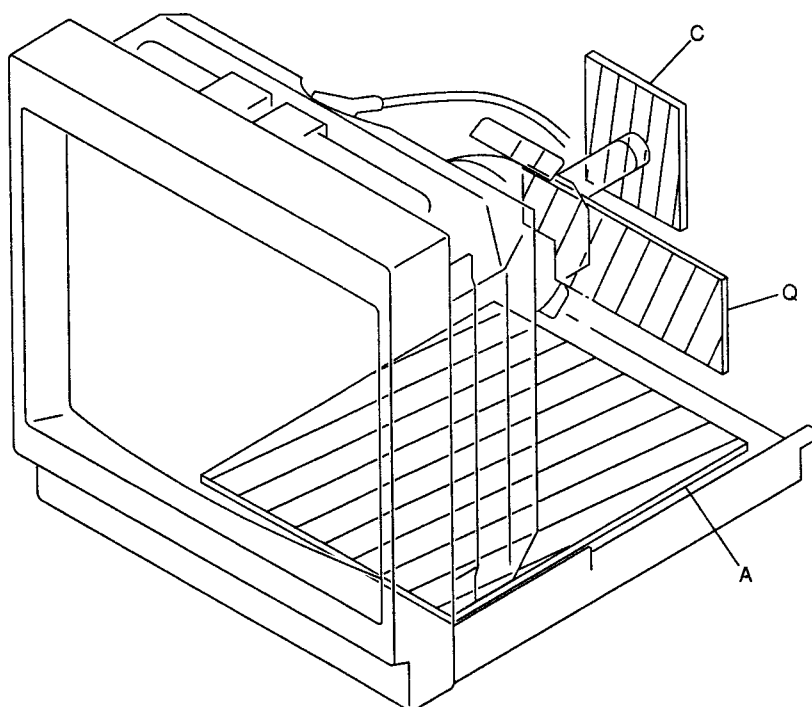
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## Section 1 Service Overview

### 1-1. Appearance Figure (14 inch)

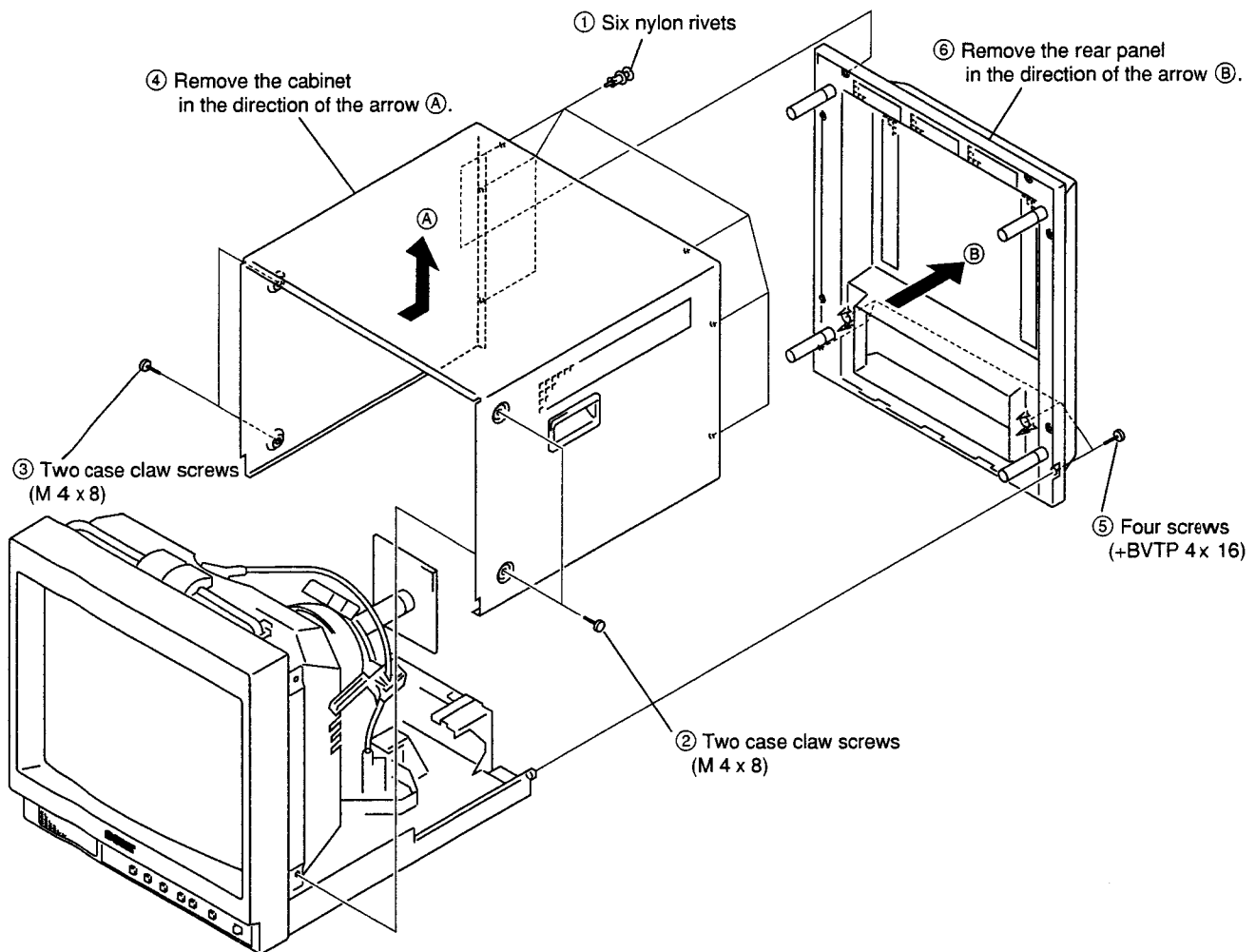


### 1-2. Board Locations (14 inch)



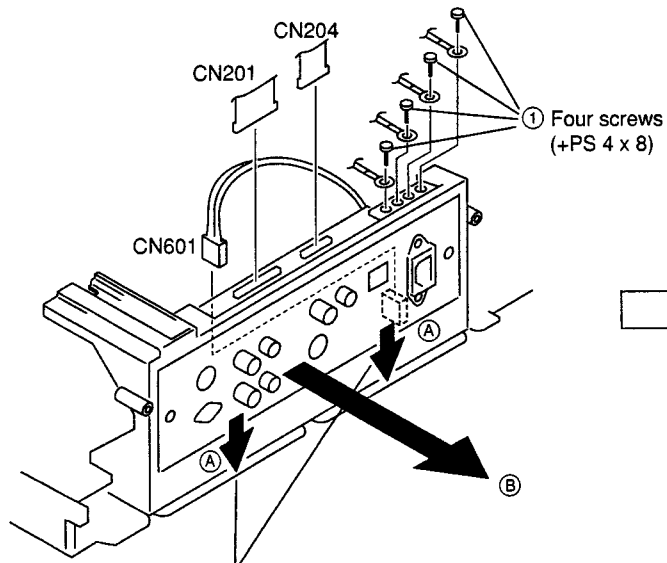
### 1-3. Disassembly (14 inch)

#### 1-3-1. Cabinet and Rear Panel (14 inch)

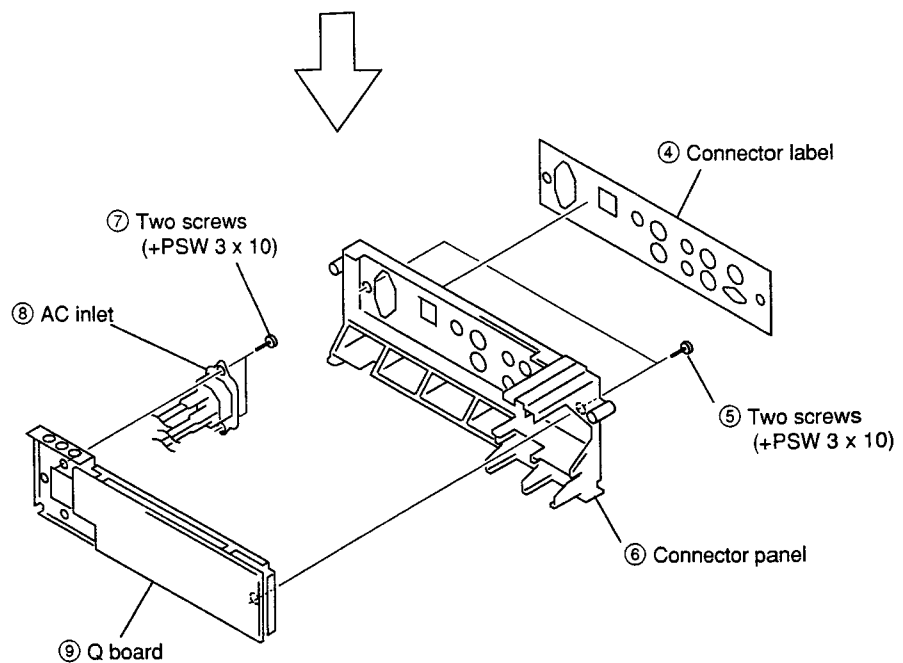
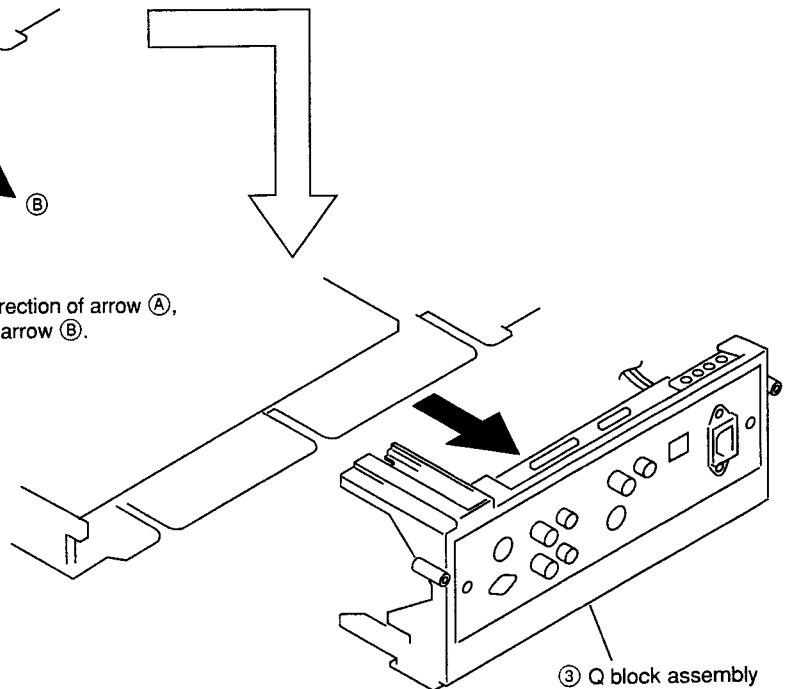


### 1-3-2. Q Block Assembly and Q Board (14 inch)

- Remove the cabinet and rear panel. (Refer to 1-3-1.)

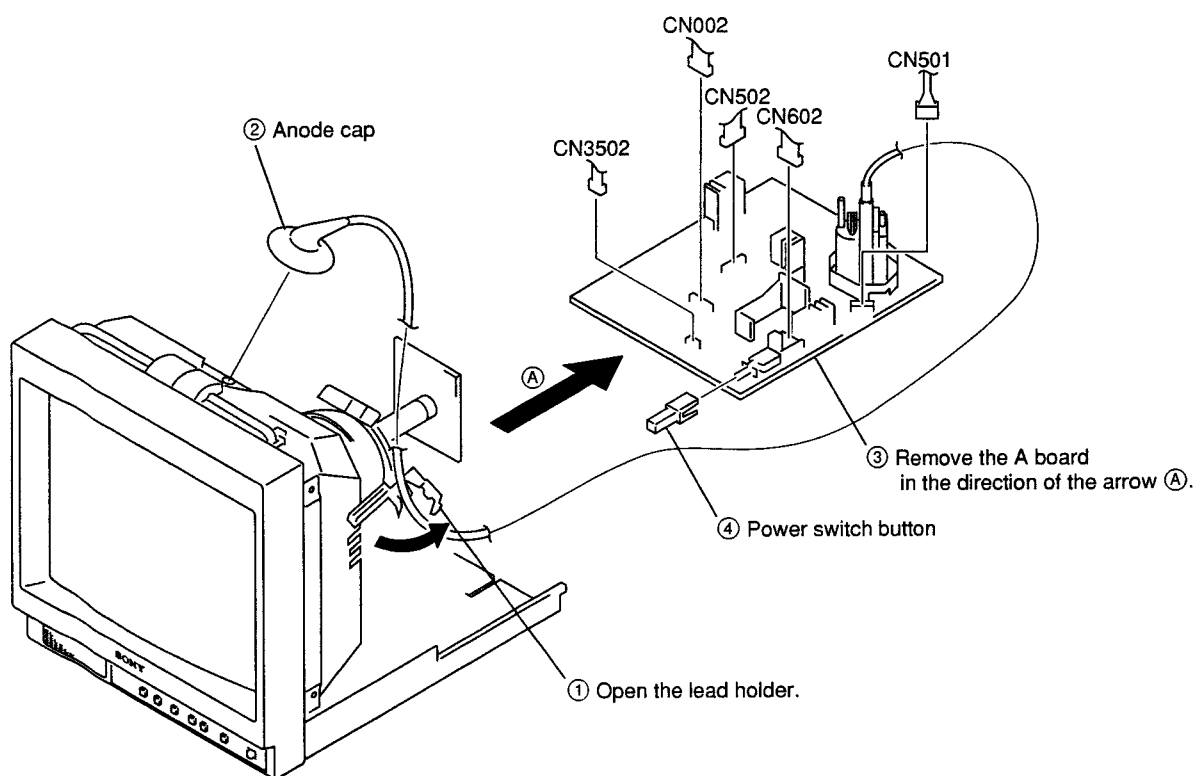


Push the two areas in the bottom of beznet in the direction of arrow (A), and pull the Q block assembly in the direction of the arrow (B).



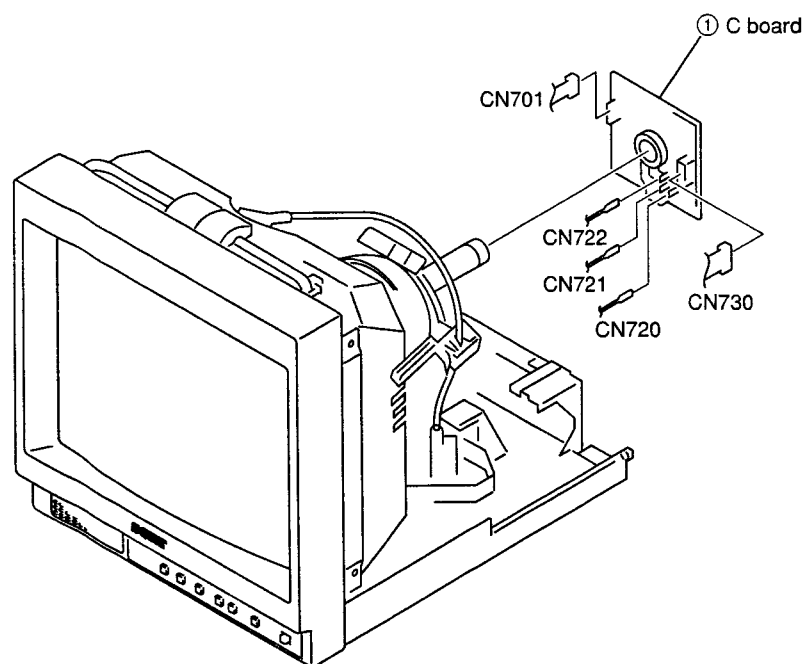
### 1-3-3. A Board Assembly (14 inch)

- Remove the cabinet and rear panel. (Refer to 1-3-1.)



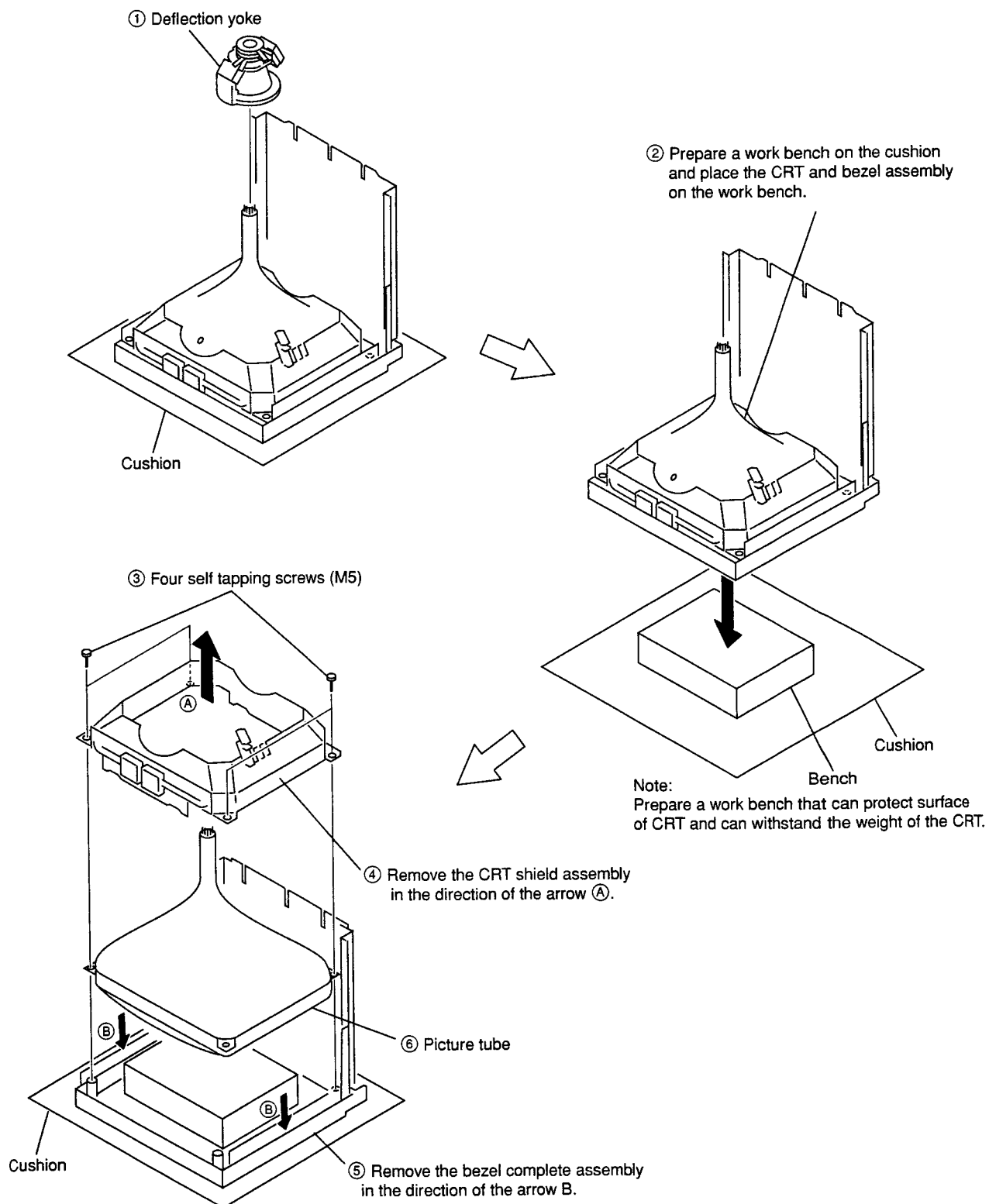
### 1-3-4. C Board (14 inch)

- Remove the cabinet and rear panel. (Refer to 1-3-1.)



### 1-3-5. Picture Tube and Bezel Complete Assembly (14 inch)

- Remove the cabinet and rear panel. (Refer to 1-3-1.)
- Remove the Q block assembly. (Refer to 1-3-2.)
- Remove the A board. (Refer to 1-3-3.)
- Remove the C board. (Refer to 1-3-4.)

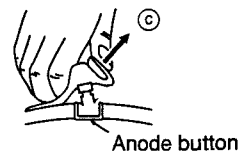
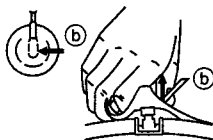
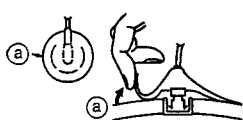


### 1-3-6. Anode Cap (14 inch)

#### Note

Short-circuit the anode of the picture tube and the anode cap to the metal chassis, picture tube shield or carbon painted on the picture tube, after removing the anode.

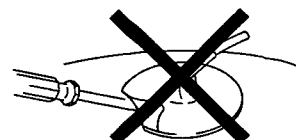
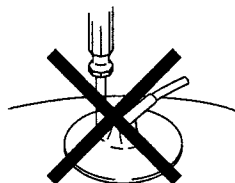
#### • Removal Procedure



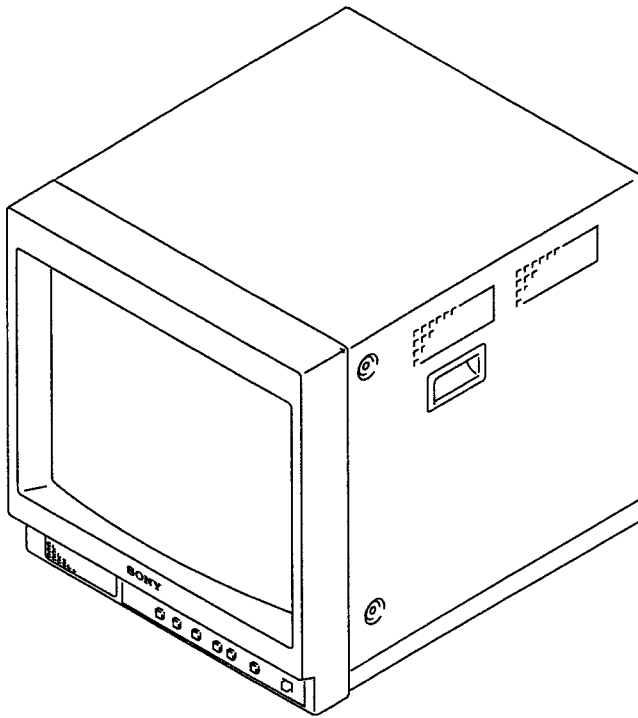
- (1) Turn up one side of the rubber cap in the direction indicated by arrow (a).
- (2) Using a thumb, pull up the rubber cap firmly in the direction indicated by arrow (b).
- (3) When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow (c).

#### • Handling Precautions

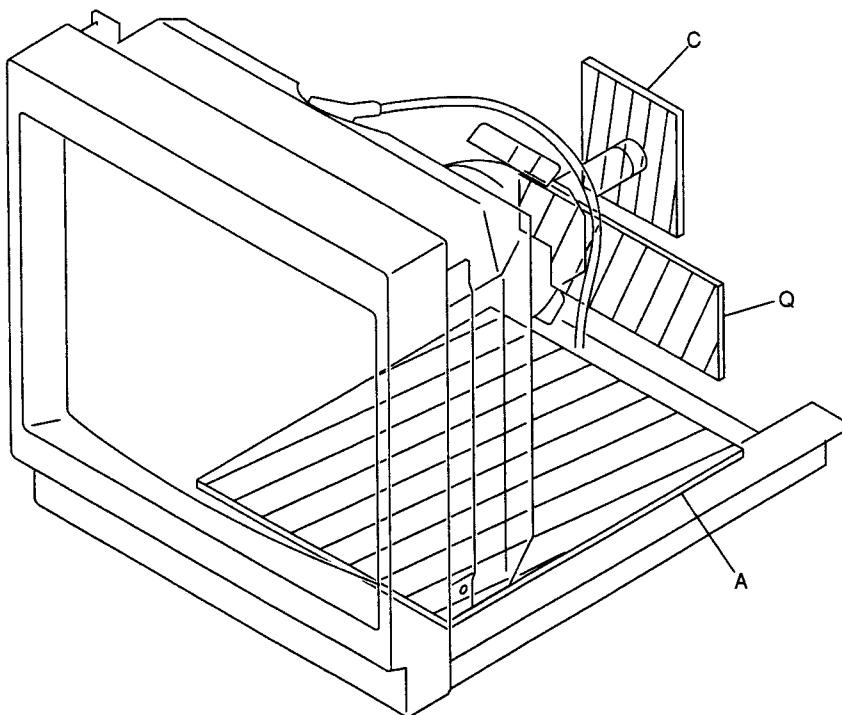
- (1) Do not scratch the surface of anode cap with a sharp object.
- (2) Do not press the rubber so hard that it damages the inside of anode caps. A shatter-hook terminal is built into the rubber.
- (3) Do not turn the foot of the rubber over.  
The shatter-hook terminal will stick out or damage the rubber.



#### 1-4. Appearance Figure (20 inch)

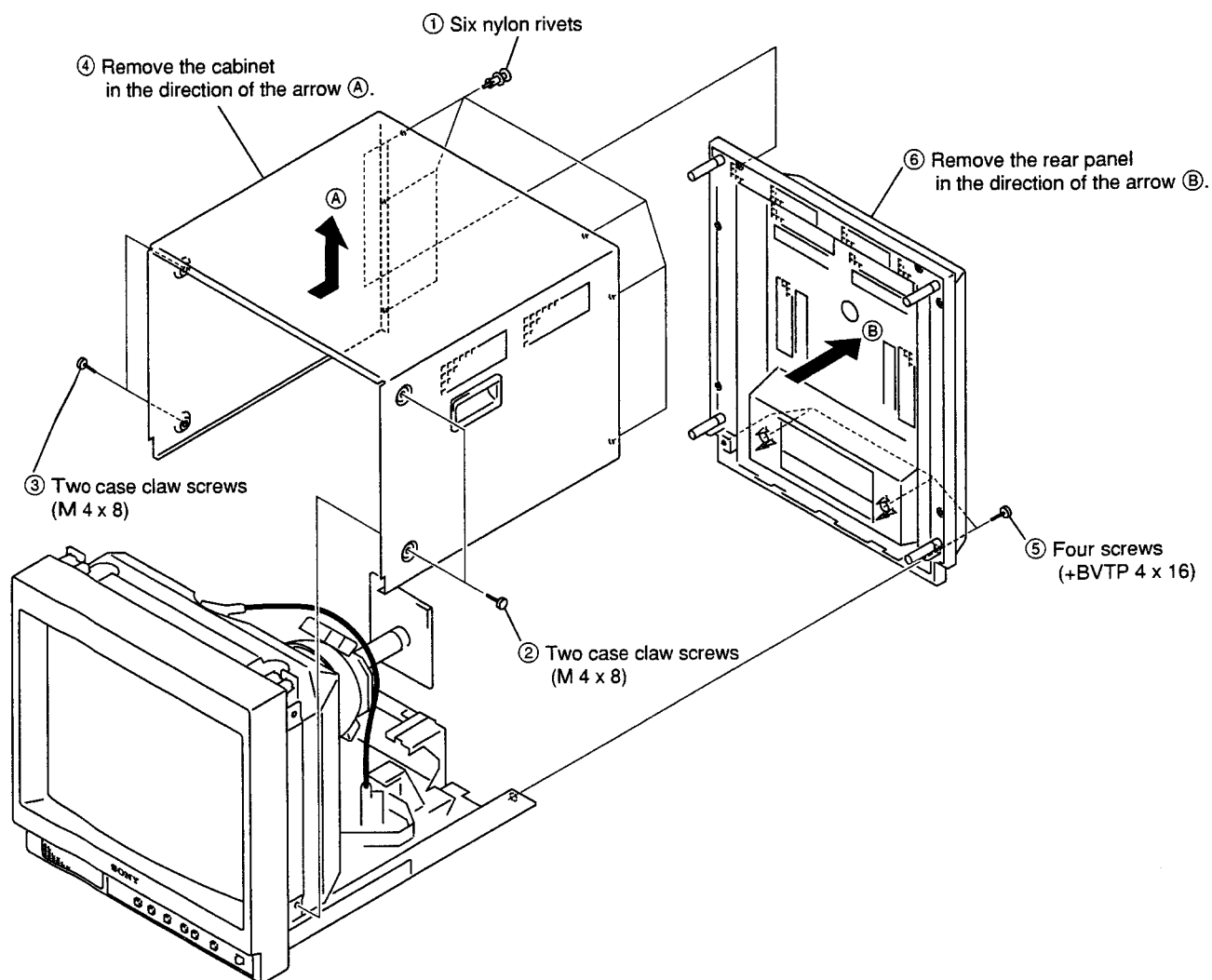


#### 1-5. Board Locations (20 inch)



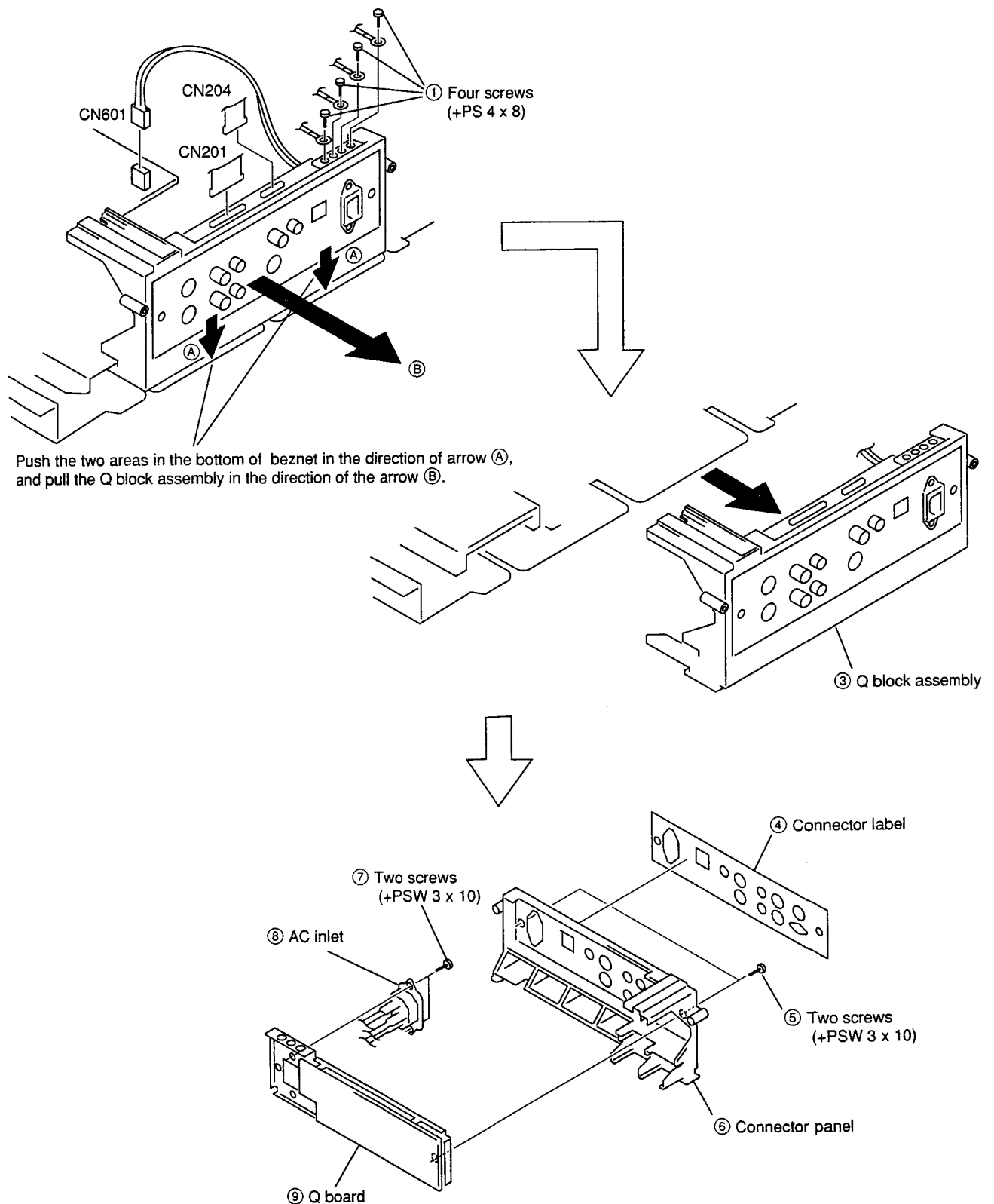
## 1-6. Disassembly (20 inch)

### 1-6-1. Cabinet and Rear Panel (20 inch)



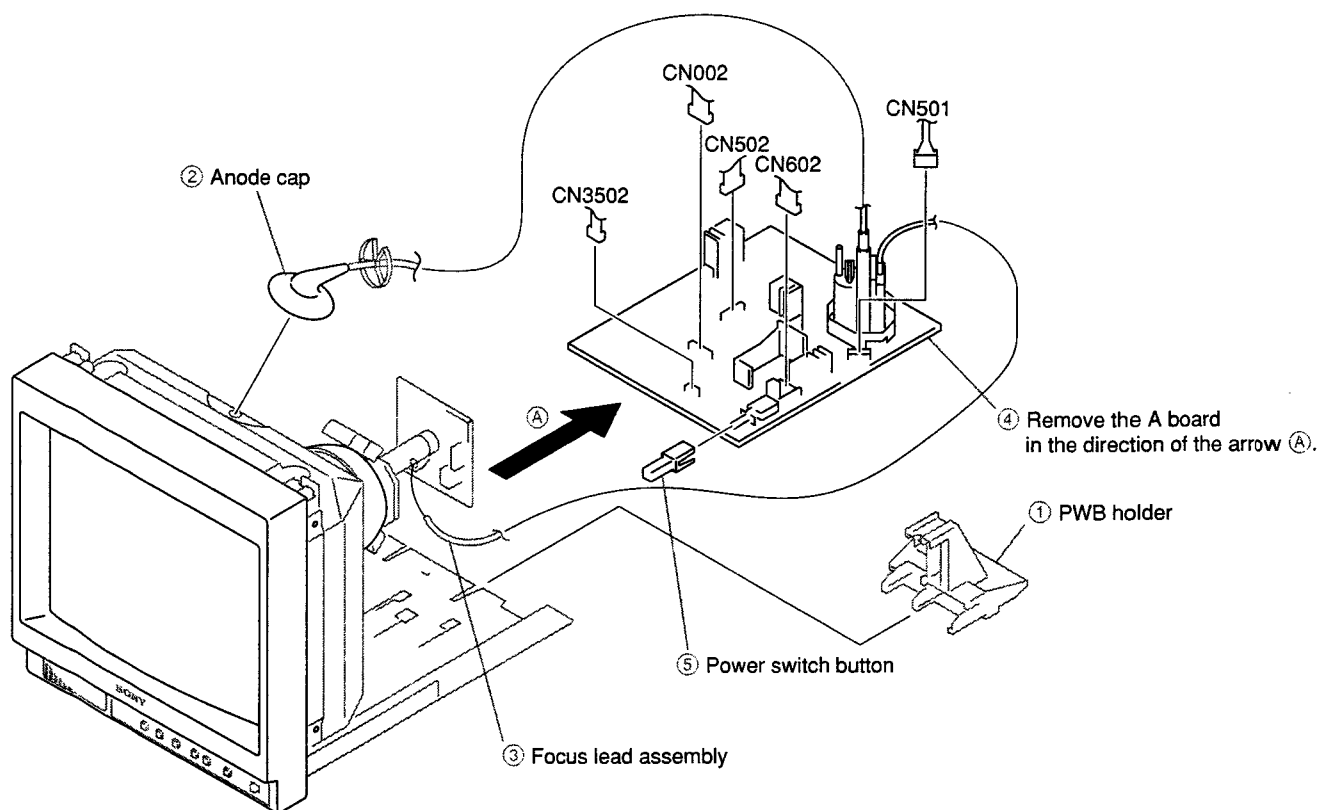
## 1-6-2. Q Block Assembly and Q Board (20 inch)

- Remove the cabinet and rear panel. (Refer to 1-6-1.)



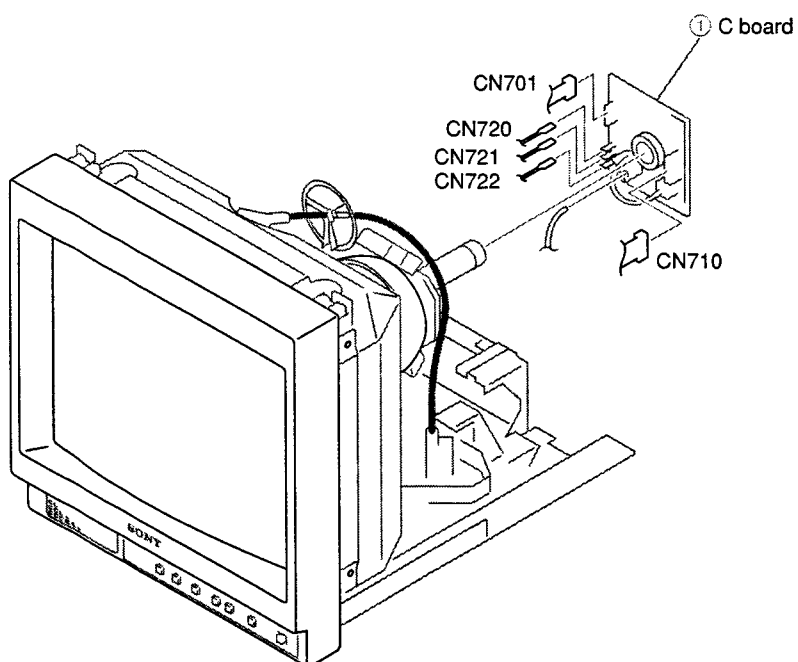
### 1-6-3. A Board (20 inch)

- Remove the cabinet and rear panel. (Refer to 1-6-1.)



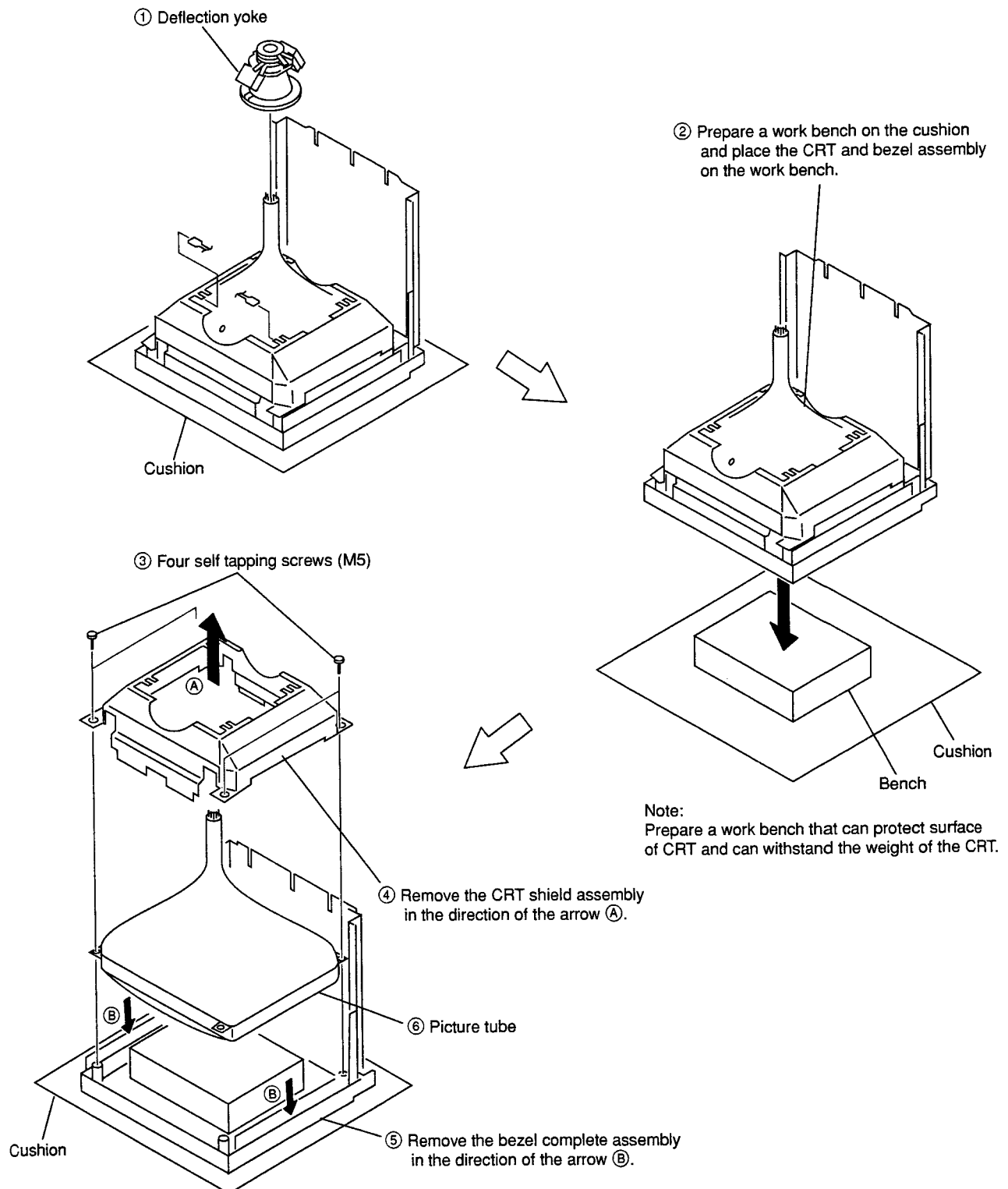
### 1-6-4. C Board (20 inch)

- Remove the cabinet and rear panel. (Refer to 1-6-1.)



### 1-6-5. Picture Tube and Bezel Complete Assembly (20 inch)

- Remove the cabinet and rear panel. (Refer to 1-6-1.)
- Remove the Q block assembly. (Refer to 1-6-2.)
- Remove the A board. (Refer to 1-6-3.)
- Remove the C board. (Refer to 1-6-4.)

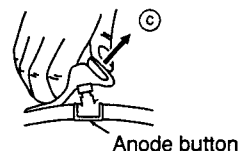
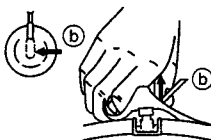
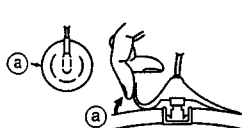


## 1-6-6. Anode Cap (20 inch)

### Note

Short-circuit the anode of the picture tube and the anode cap to the metal chassis, picture tube shield or carbon painted on the picture tube, after removing the anode.

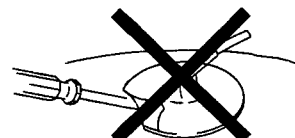
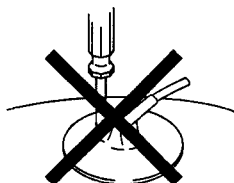
### • Removal Procedure



- (1) Turn up one side of the rubber cap in the direction indicated by arrow (a).
- (2) Using a thumb, pull up the rubber cap firmly in the direction indicated by arrow (b).
- (3) When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow (c).

### • Handling Precautions

- (1) Do not scratch the surface of anode cap with a sharp object.
- (2) Do not press the rubber so hard that it damages the inside of anode caps. A shatter-hook terminal is built into the rubber.
- (3) Do not turn the foot of the rubber over.  
The shatter-hook terminal will stick out or damage the rubber.



## 1-7. Warning on Power Connection

Use a proper power cord for your local power supply.

|                         | United State, Canada | Europe                                                        | Japan    |
|-------------------------|----------------------|---------------------------------------------------------------|----------|
| Plug type               | LP-30B               | — <sup>a)</sup>                                               | YP332    |
| Female end              | LS-13                | VM0303B                                                       | YC-35    |
| Cord type               | SB-SVT               | H05VV-F                                                       | VCTF     |
| Minimum cord set rating | 10A/125V             | 10A/250V                                                      | 7A/125V  |
| Safety approval         | UL/CSA               | SEMKO, NEMKO, DEMKO, SEV,<br>KEMA, EI (FIMKO), CEBEC, VDE, BS | DENAN-HO |

a) Note : Use an appropriate rating plug which is applied to local regulations.

## Section 2

### Set-up Adjustment

#### 2-1. Equipment Required

- Oscilloscope  
Tektronix 2465 or equivalent (with bandwidth of 350 MHz)
- VG (programmable video signal generator)  
VG-854 or equivalent
- Digital VOM  
Advantest TR6845 or equivalent
- Slide induction transformer
- DC power supply

#### Note

Start the following adjustments 5 minutes after the main power is turned on.

\* In this chapter,  indicates the control items in the service mode.

Example :

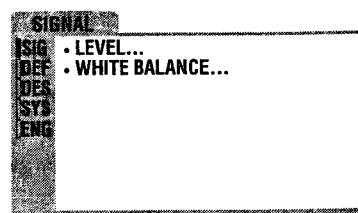
#### 2-2. Preparations (1)

##### Service Mode

This set is provided with a switch for service on the front panel that can be used to make various adjustments. The operation method of this switch is explained in detail below.

##### 1. Entering the service mode

Simultaneously press the [ENTER] key and the [MENU] key shown on the display of the menu 3 seconds or more.



##### 2. Operating the Service Mode

Select the desired service item with the [↑], [↓] key and press the [ENTER] key to enter the adjustment mode.

Press the [+] key to increase the adjustment value.

Press the [-] key to decrease the adjustment value.

Press the [ENTER] key to save the adjustment value.

Press the [MENU] key to cancel the entry.

##### 3. Finishing the service mode

Simultaneously press the [ENTER] key and the [MENU] key shown on the display of the menu 3 seconds or more.

#### 4. Executing FACTORY LOAD

If the adjustment data is damaged or lost by some reasons, you can restore the default factory adjustment data by executing FACTORY LOAD as described below.

Select the following sub menus from the Service Menu in the order of : [SYSTEM] → [FACTORY...] → [LOAD...] to read the default factory data. If the default factory data is damaged or the ROM is replaced without executing FACTORY SAVE as described in the following paragraph, you cannot execute FACTORY LOAD.

#### 5. Executing FACTORY SAVE

This operation is to write the FACTORY LOAD data into the factory data area in the memory.

Select the following sub menus from the Service Menu in the order of : [SYSTEM] → [MAINTENANCE ID] and type 111. Then select the following sub menus from the Service Menu in the order of : [ENGINEER] → [FACTORY SAVE] to write the factory data in the memory. FACTORY SAVE is protected from miss operation so that FACTORY SAVE cannot be executed unless MAINTENANCE ID is set.

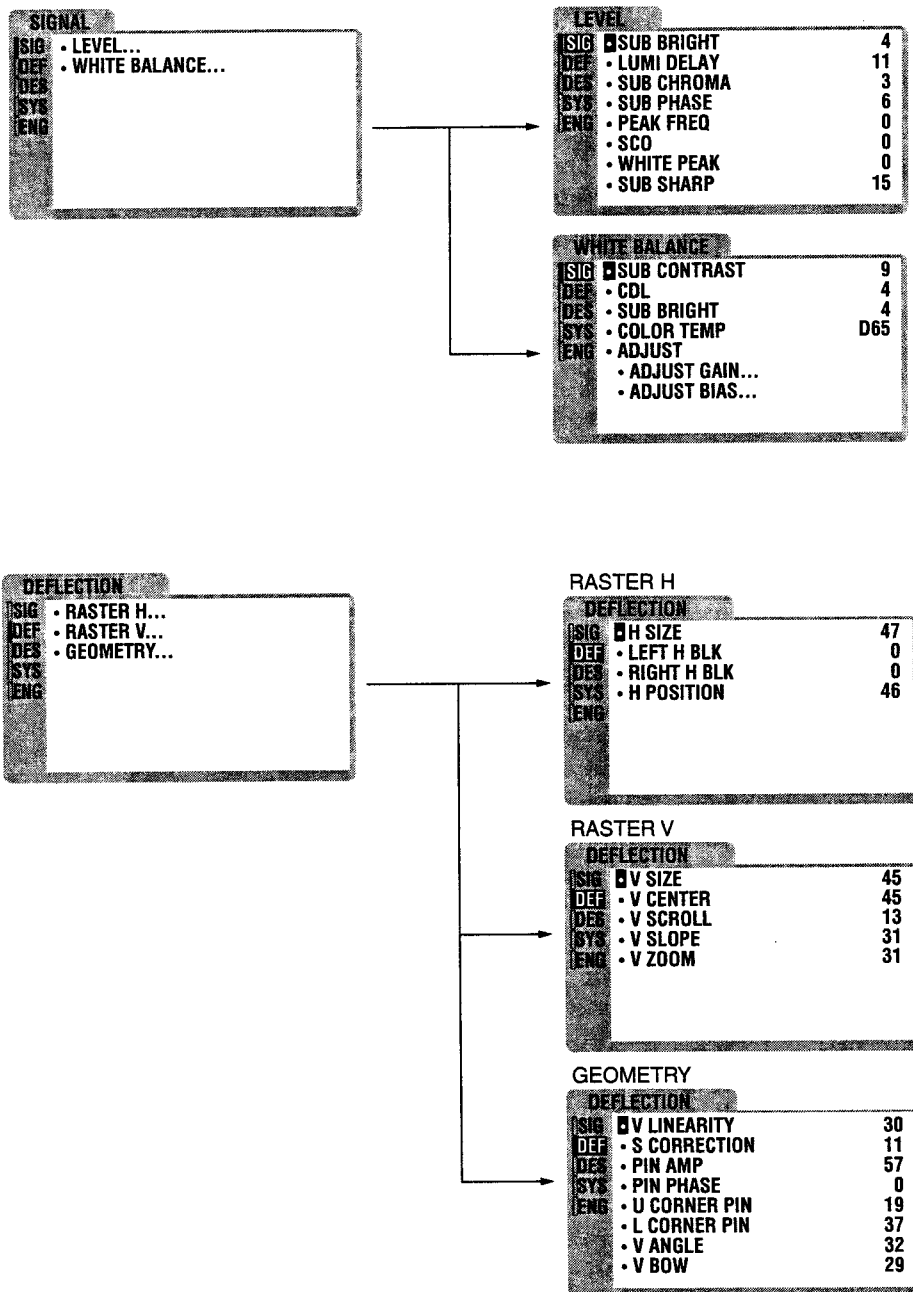
#### FACTORY SET

If the following circuit board is replaced or the following IC on the respective board is replaced, perform the following settings.

A board, IC001, IC003

1. Select the following sub menus from the Service Menu in the order of : [SYSTEM]-[MAINTENANCE ID] and type 111.
2. If the IC003 is replaced, select the following sub menus from the Service Menu : [ENGINEER]-[CLEAR NVM ON A] and write data.
3. Select the following sub menus from the Service Menu in the order of : [SYSTEM]-[MODEL INCH], [SYSTEM]-[MODEL TYPE] and write the model data of each model in the [MODEL TYPE] referring to table 2-2.
4. Perform all adjustment items of the [SIGNAL] menu and of the [DEFLECTION] menu.
5. Upon completion of adjustment, select the menus [ENGINEER]-[FACTORY SAVE] to save the adjustment data.

## Service Mode screen display



# Note

When changing DESIGN ITEMS 1/2 and 2/2, set the MAINTENANCE ID to 111 in SYSTEM.

| DESIGN 1/2 |                        |    |
|------------|------------------------|----|
| SIG        | • COLOR DECODER 0...   | 4  |
| DEF        | • COLOR DECODER 1...   | 11 |
| DES        | • AV SWITCH 0...       | 3  |
| SYS        | • AV SWITCH 1...       | 6  |
| ENG        | • SYNCHRONIZATION 0... | 0  |
|            | • SYNCHRONIZATION 1... | 0  |
|            | • DEFLECTION...        | 0  |
|            | • SOUND 0...           | 15 |

| COLOR DECODER 0 |           |   |
|-----------------|-----------|---|
| SIG             | • CB...   | 0 |
| DEF             | • ALC...  | 1 |
| DES             | • MUS     | 0 |
| SYS             | • MAT     | 1 |
| ENG             | • CM 3210 | 8 |

| COLOR DECODER 1 |       |   |
|-----------------|-------|---|
| SIG             | • FC0 | 0 |
| DEF             | • BPS | 0 |
| DES             |       |   |
| SYS             |       |   |
| ENG             |       |   |

| AV SWITCH 0 |         |   |
|-------------|---------|---|
| SIG         | • INABC | 3 |
| DEF         | • CMB10 | 1 |
| DES         | • STR   | 0 |
| SYS         |         |   |
| ENG         |         |   |

| AV SWITCH 1 |          |   |
|-------------|----------|---|
| SIG         | • CS2ABC | 0 |
| DEF         | • CS1ABC | 7 |
| DES         | • FB0    | 0 |
| SYS         |          |   |
| ENG         |          |   |

| SYNCHRONIZATION 0 |        |   |
|-------------------|--------|---|
| SIG               | • VID  | 0 |
| DEF               | • VIM  | 0 |
| DES               | • STB  | 1 |
| SYS               | • POC  | 0 |
| ENG               | • FOAB | 3 |
|                   | • HP2  | 0 |
|                   | • SDC  | 0 |

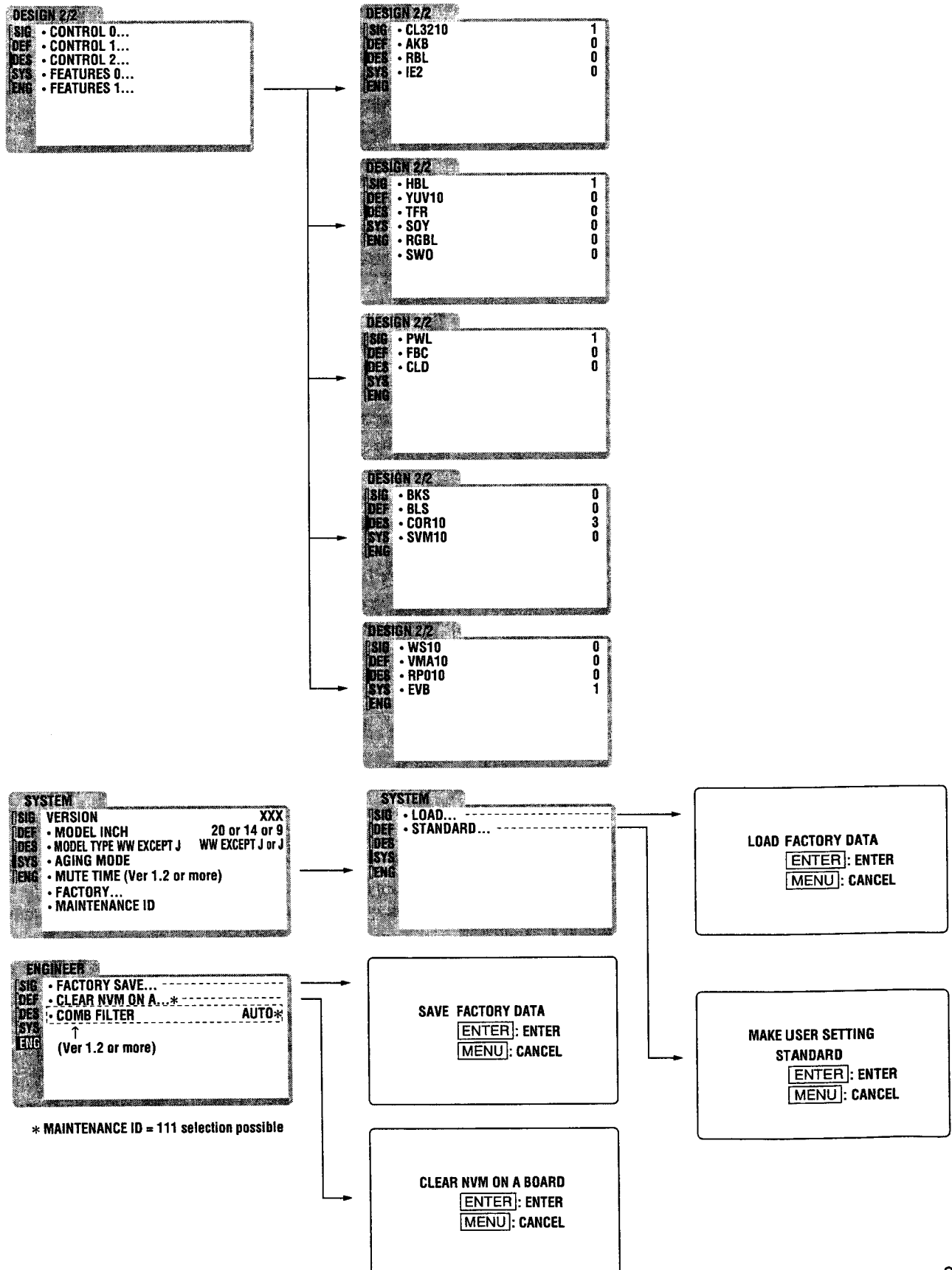
| SYNCHRONIZATION 1 |         |   |
|-------------------|---------|---|
| SIG               | • NCIN  | 0 |
| DEF               | • DL    | 0 |
| DES               | • FORFS | 2 |
| SYS               | • OSO   | 1 |
| ENG               | • FSL   | 0 |
|                   | • STM   | 0 |

| DEFLECTION |        |   |
|------------|--------|---|
| SIG        | • HCO  | 0 |
| DEF        | • EVG  | 1 |
| DES        | • AVG  | 0 |
| SYS        | • SBL  | 0 |
| ENG        | • XDT  | 1 |
|            | • DFL  | 1 |
|            | • OSVE | 0 |

| SOUND 0 |       |   |
|---------|-------|---|
| SIG     | • AVL | 0 |
| DEF     | • SM  | 0 |
| DES     |       |   |
| SYS     |       |   |
| ENG     |       |   |

# Note

When changing DESIGN ITEMS 1/2 and 2/2, set the MAINTENANCE ID to 111 in SYSTEM.



## 2-3. Preparation (2). Initialization

\* Supply composite video signal as shown in Table 2-1.

| Signal          |       | Details of signal | Standard level P-W |
|-----------------|-------|-------------------|--------------------|
| Composite video | 358NT | 100 % white       | 0.714 V            |
|                 |       | 75 % white        | 0.536 V            |
|                 | PAL   | 100 % white       | 0.7 V              |
|                 |       | 75 % white        | 0.525 V            |
| Voice/sound     |       | -5 dBu            | 0.436Vrms          |

Table 2-1

## 2-4. Writing Model Data

1. Select the following sub menus from the Service Menu in the order of : [SYSTEM] → [MODEL INCH], [SYSTEM] → [MODEL TYPE] and write the model data of each model in the [MODEL TYPE] referring to table 2-2.

| Model name | Model type  | Model inch |
|------------|-------------|------------|
| PVM-14L1   | J           | 14         |
| PVM-14L1   | WW EXCEPT J | 14         |
| SSM-14L1   | J           | 14         |
| SSM-14L1   | WW EXCEPT J | 14         |
| PVM-20L1   | J           | 20         |
| PVM-20L1   | WW EXCEPT J | 20         |
| SSM-20L1   | J           | 20         |
| SSM-20L1   | WW EXCEPT J | 20         |

Table. 2-2

2. Select the following sub menus from the Service Menu in the order of : [SIGNAL] → [WHITE BALANCE] and type the following data in [COLOR TEMP].

WW EXCEPT J    D65  
J                      D93

\* Standard inspection state

Unless otherwise specified in this manual, make adjustment under the following conditions.

VOLUME            0  
CONTRAST          80  
BRIGHTNESS       0  
CHROMA            50  
PHASE               0  
ASPECT RATIO    4 : 3

## 2-5. Picture Output

### 1. AC input voltage setting

1. Input VIDEO signals and AUDIO signals to respective terminals on the connector panel.
2. Set the slide induction transformer AC voltage as shown in Table 2-3.

| Model name                                   | Voltage                      |
|----------------------------------------------|------------------------------|
| PVM-14L1<br>PVM-20L1<br>SSM-14L1<br>SSM-20L1 | AC 100 V to 240 V $\pm 10$ % |

Table. 2-3

## 2-6. Landing Adjustment (1)

1. CONTRAST... MAX  
BRIGHT... Conspicuous position
2. Roughly adjust the white balance, G2, and convergence.
3. Switch the video signal generator output signal to green only.
4. Move back the DY backward (in the direction toward neck).
5. Adjust the purity knob so that the green will come to the center of the screen. Make R and B almost identical. (Fig. 2-1)
6. Switch to B only, R only, and G only and verify each.
7. Bring the deflection yoke gradually forward and adjust the deflection yoke so that R and B on both sides of the screen will be green. (Fig.2-2 → Fig. 2-3)
8. If the deflection yoke comes forward too much, the pattern shown in Fig.2-4 will appear. If so, move the deflection yoke backward. (Fig.2-4 → Fig.2-3)
9. Switch the signal generator output signal to the BLUE only color and confirm the screen. (Fig. 2-6)
10. Switch the signal generator output signal to the RED only color and confirm the screen. (Fig. 2-9)
11. When two colors are mixed, set the mixed color as the standard, and repeat operations 6 and 7.
12. Switch to an all-white signal and check the uniformity.
13. When the deflection yoke position is determined, fasten it with the DY screw.

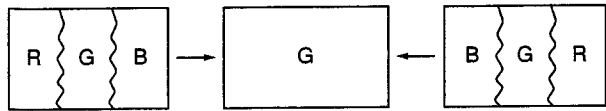
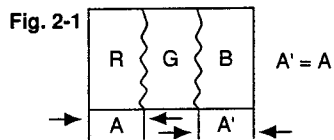


Fig. 2-2

Fig. 2-3

Fig. 2-4

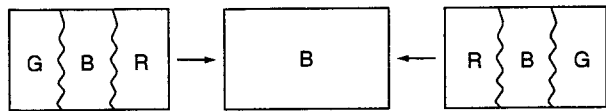


Fig. 2-5

Fig. 2-6

Fig. 2-7



Fig. 2-8

Fig. 2-9

Fig. 2-10

14 inch

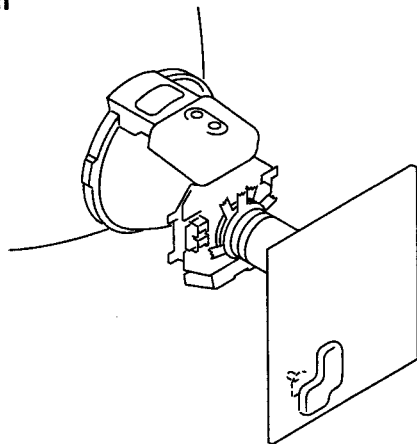


Fig. 2-11

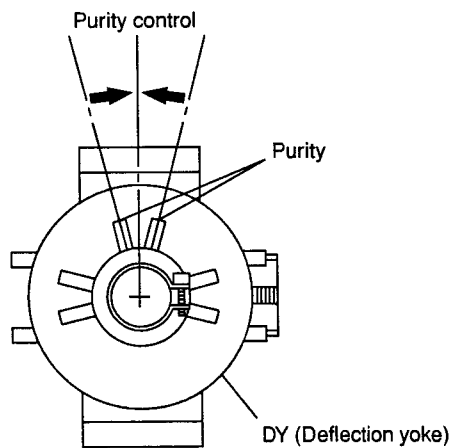


Fig. 2-12

20 inch

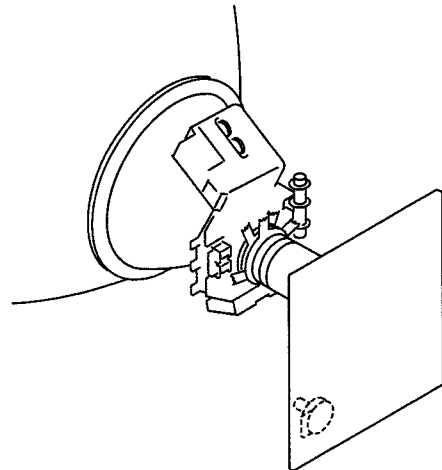


Fig. 2-11

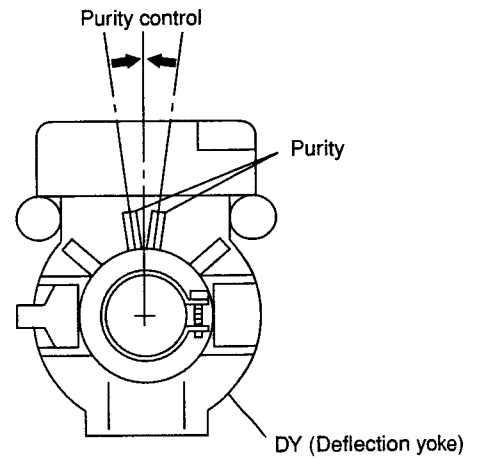


Fig. 2-12

## 2-7. Deflection Yoke Neck Rotation Adjustment

1. If there are mis-convergence on both sides of X and Y axes, move the DY neck in the direction of the arrow so that the degree of mis-convergence satisfies the allowable range of specification over the entire screen.

(1) Reverse cross mis-convergence pattern

Move the deflection yoke downward.

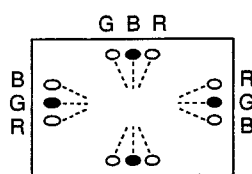


Fig. 2-18

(2) Cross mis-convergence pattern

Move the deflection yoke upward.

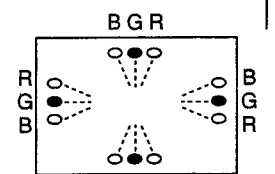


Fig. 2-19

(3) Pattern of left-sided deflection yoke

Move the deflection yoke to the right when viewed from the CRT screen.

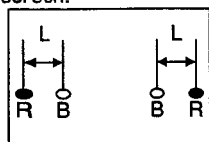


Fig. 2-20

(4) Pattern of right-sided deflection yoke

Move the deflection yoke to the left when viewed from the CRT screen.

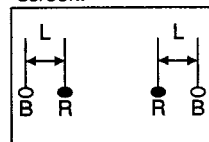
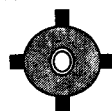


Fig. 2-21

2. Insert the wedge between the deflection yoke and CRT funnel to lock the deflection yoke. (Fig.2-18)



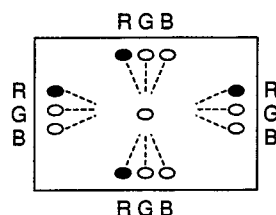
Inch 20



Inch 14

Fig. 2-18

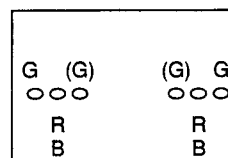
3. The following patterns cannot be corrected by turning the neck. (Figs.2-19, 2-20, and 2-21)



\* Gun rotation

The X-axis and Y-axis beams are distorted on both sides.

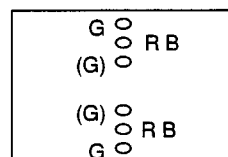
Fig. 2-19



\* HCR Large (small)

The horizontal portion of the G raster is wider (narrower) than that of the RB raster on both sides of the screen.

Fig. 2-20



\* VCR Large (small)

The vertical portion of the G raster is wider (narrower) than that of the RB raster on both sides of the screen.

Fig. 2-21

## 2-8. Convergence Adjustment (1)

1. Input a dot pattern signal.  
CONTRAST... Conspicuous position  
BRIGHT... 0
2. Align the horizontal R, G, and B dots at the center of the screen by adjusting RV760 on the C board. (H-STAT adjustment)  
\* When H-CENT is changed after H-STAT adjustment, readjust H-STAT. (H-STAT will change by means of H-CENT VR.)
3. Using V STAT Mg, align the top and bottom of R, G and B on center of the screen.  
\* After V-STAT adjustment, paint-lock the knob.

### V-STAT Mg knob

While keeping the angles A and B equal ( $I = I'$ ), align the vertical convergence.

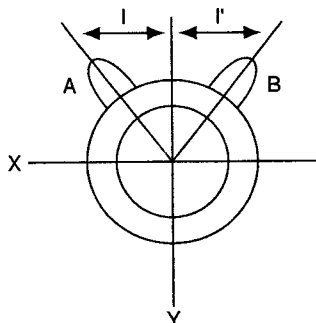


Fig. 2-22 Good example

If the A and B knobs are not symmetrical ( $I \neq I'$ ), the focus may deteriorate, beam striking or other adverse effects may occur.

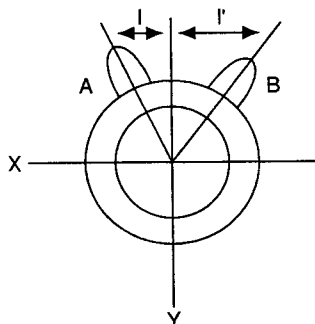


Fig. 2-23 Bad example

4. For HMC, use the six poles Mg to adjust the R and B dots so that they will be symmetrical horizontally with respect to the G dot. (Fig. 2-24)

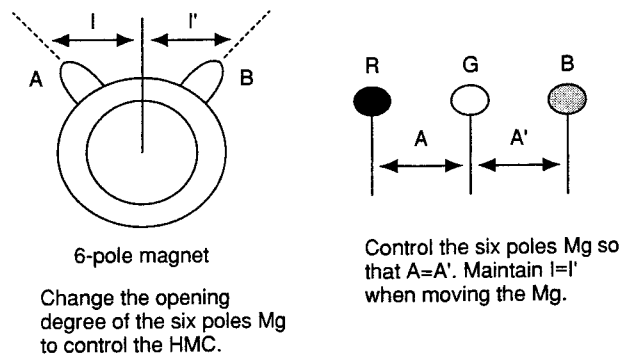


Fig. 2-24

5. For VMC, use the six poles Mg to adjust the R and B dots so that they will be symmetrical vertically with respect to the G dot. (Fig. 2-25)

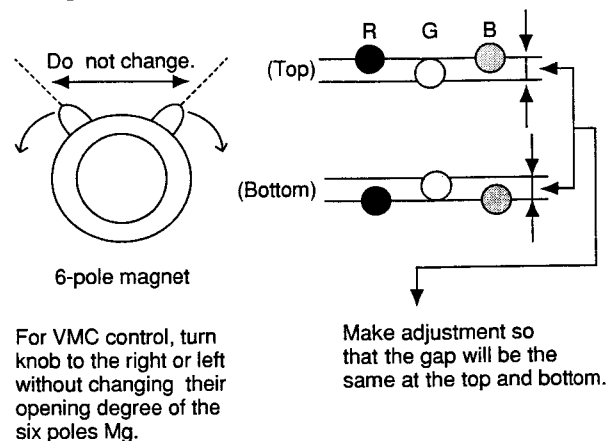


Fig. 2-25

6. Repeat the adjustment steps from 2 through 5.  
\* The above adjustment may affect the landing, so after adjustment, check the landing again.
7. Paint-lock the knobs after adjustment.

## 2-9. Convergence Adjustment (2)

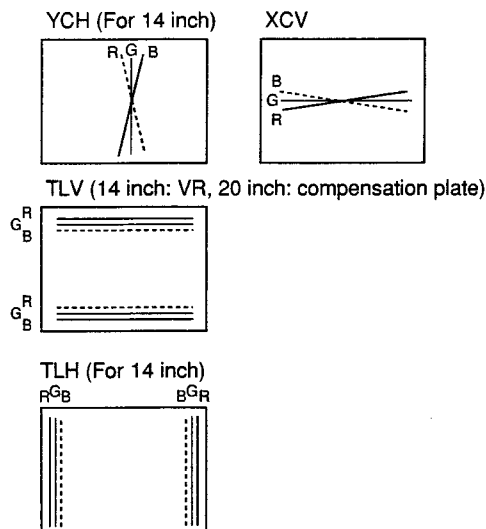


Fig. 2-26 Convergence compensation VR, coil, and compensator

### Note

When adjustment is insufficient, use permalloy.  
After the adjustment, use paint lock.

1. Input a crosshatch signal.
2. Adjust TLV, YCH VR of DY, XCV coil to minimize mis-convergence.

When the right convergence is not gotten even after adjustment described above, use the permalloy sheet to adjust and fix the permalloy with RTV.

## 2-10. Landing Adjustment (2)

1. Attach the wobbling coil of allowance checker to neck ass'y.
2. Input green flat field signal to LINE A.
3. Turn on the main power of the monitor, and degauss CRT screen with a degausser.
4. Receive white flat field signal, and set brightness to 0, contrast to 80.
5. Make sure that there is no flicker when changing input signals among G, B, and R signals.
6. Select G signal and adjust the purity.
7. In case that flicker occurs in a flat field signal, adjust with Mg.
8. When attaching a Mg, it should be on a centre line between CRT and the mislanding area.
9. Rotate the Mg to eliminate the mislanding.
10. Confirm that there is no mislanding on the other colours.
11. Remove the air-core coil. Check uniformity in white flat field signal.
12. Lock purity with white paint.
13. Confirmation after Mg is attached.
  - a. Deflection distortion
  - b. Landing after degaussing CRT
  - c. Convergence
  - d. Attach Mg to DY with bond.

## 2-11. Focus Adjustment

1. Input 480/60I cross hatch-signal.
2. Adjust the focus so that the center of screen is the best.
  - 14 inch RV750 (C board)
  - 20 inch VR on the upper side FBT
3. Input 480/60I entire white signal and ensure the uniformity of entire screen.  
Specification : 4 JND or less

## 2-12. White Balance Adjustment

### 2-12-1. Sub Bright Adjustment

1. Receive Gray Scale pattern signal.  
\* Gray scale : 0, 5, 10, 15 IRE (4 Steps)
2. Set the following items at PICT/SOUND CTRL.  
CONTRAST  $\Rightarrow$  MIN  
BRIGHTNESS  $\Rightarrow$  0 (CENTER)
3. Adjust SUB BRIGHT using the resistor of [SUB BRIGHT] at SERVICE MODE [SIGNAL] - [WHITE BALANCE].  
Check 0 and 5 IRE section of Gray Scale is completely cut off and 10 IRE section of it lights faintly. (If not readjust it.)

### 2-12-2. White Balance Adjustment [D65]

1. Set the COLOR TEMP to D65.
2. Receive window pattern signal.
3. Adjust the D65 white balance within standard (description below) using the resistor [R DRIVE] and [B DRIVE] at SERVICE MODE [SIGNAL]-[WHITE BALANCE]-[AJUST GAIN].

|     | X   | Y   |
|-----|-----|-----|
| D65 | 313 | 329 |

Switch the item R  $\Rightarrow$  G  $\Rightarrow$  B with [ENTER], and change the data with [+]/[-].

4. Change over to all white signal and lower signal level, set brightness to 3 (+1/-0) cd/m<sup>2</sup>.
5. Adjust the D65 white balance within standard (description below) using the resistor [OFFSET R] and [OFFSET G] at SERVICE MODE [SIGNAL]-[WHITE BALANCE]-[AJUST BIAS].

|     | X   | Y   |
|-----|-----|-----|
| D65 | 313 | 329 |

Switch the item R  $\Rightarrow$  G with [ENTER], and change the data with [+]/[-].

6. Repeat the manual 2 to 5 until be able to adjust GAIN side and BIAS side to the same value.

### 2-12-3. White Balance Adjustment [D93]

1. Receive window pattern signal.
2. Set the COLOR TEMP to D93.
3. Adjust the D93 white balance within standard (description below) using the resistor [R DRIVE] and [B DRIVE] at SERVICE MODE [SIGNAL]-[WHITE BALANCE]-[AJUST GAIN].

|     | X   | Y   |
|-----|-----|-----|
| D93 | 283 | 298 |

Switch the item R  $\Rightarrow$  G  $\Rightarrow$  B with [ENTER], and change the data with [+]/[-].

4. Change over to all white signal and lower signal level, set brightness to 3cd/m<sup>2</sup>.
5. Adjust the D65 white balance within standard (description below) using the resistor [OFFSET R] and [OFFSET G] at SERVICE MODE [SIGNAL]-[WHITE BALANCE]-[AJUST BIAS].

|     | X   | Y   |
|-----|-----|-----|
| D93 | 283 | 298 |

Switch the item R  $\Rightarrow$  G with [ENTER], and change the data with [+]/[-].

6. Repeat the manual 2 to 5 until be able to adjust GAIN side and BIAS side to the same value.

## 2-13. Deflection Adjustment

### Note

V.CENT and V.SIZE should be checked after V.LIN adjustment.

### 2-13-1. 525 Vertical Deflection Adjustment

1. Receive 525 SPCB signal.
2. Set the following settings.  
CONTRAST  $\Rightarrow$  80  
BRIGHTNESS  $\Rightarrow$  0
3. Enter service mode.
4. Adjust V.SIZE roughly to 12 blocks with [V SIZE] in [DEFLECTION]-[RASTER V] at SERVICE MENU.  
And adjust V.CENT with [V CENTER].

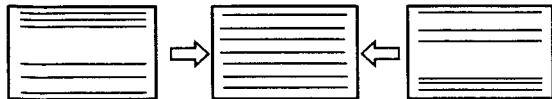
### Note

Confirm these items and data as follow.  
[DEFLECTION]-[RASTER V] at SERVICE MENU

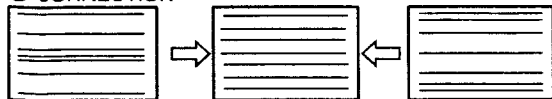
|             | (14 inch) | (20 inch) |
|-------------|-----------|-----------|
| V. SCROLL : | 13        | 13        |
| V. SLOPE :  | 33        | 33        |
| V. ZOOM :   | 45        | 50        |

5. Receive 525 Cross-Hatch signal.
6. Confirm the following items.
  - Confirm DY tilt
  - Confirm upper/lower V PIN
7. Adjust the Horizontal trapezoid with [TLY] at DY.
8. Adjust V.LIN with [V LINEARITY], [S-CORRECTION] in [DEFLECTION]-[GEOMETRY] at SERVICE MENU.

#### V LINEARITY



#### S-CORRECTION



9. Adjust V.SIZE with [V SIZE] in [DEFLECTION]-[GEOMETRY] at SERVICE MENU.

NORMAL V.SIZE standard

|        |         | 525 SPCB              | 625 SPCB              |
|--------|---------|-----------------------|-----------------------|
| 4 : 3  |         | 12.8 $\pm$ 0.2 blocks | 12.8 $\pm$ 0.3 blocks |
| 16 : 9 | 14 inch | 157 $\pm$ 2 mm        | 157 $\pm$ 2 mm        |
|        | 20 inch | 221 $\pm$ 3 mm        | 221 $\pm$ 3 mm        |

10. Repeat the manual 8 and 9 until be satisfy the both specifications.
11. Set to 16:9 mode.
12. Adjust 16:9 V.SIZE with [V SIZE] in [DEFLECTION]-[GEOMETRY] at SERVICE MENU.

Confirm these items and data as follows.

|             | (14 inch) | (20 inch) |
|-------------|-----------|-----------|
| V. SCROLL : | 13        | 13        |
| V. SLOPE :  | 25        | 25        |
| V. ZOOM :   | 45        | 50        |

### Note

V size in 16:9 mode should be measured without flag signal in periphery of the picture.

13. Back to 4:3 mode.

## 2-13-2. 625 Vertical Deflection Adjustment

1. Receive 625 SPCB signal.
2. Set the following settings.  
CONTRAST  $\Rightarrow$  80  
BRIGHTNESS  $\Rightarrow$  0
3. Enter service mode.
4. Adjust V.SIZE roughly to 12 blocks with [V SIZE] in [DEFLECTION]-[RASTER V] at SERVICE MENU.  
And adjust V.CENT with [V CENTER].

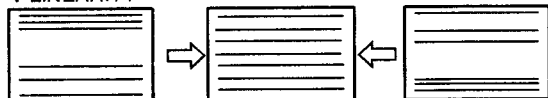
### Note

Confirm these items and data as follow.

|             | (14 inch) | (20 inch) |
|-------------|-----------|-----------|
| V. SCROLL : | 13        | 13        |
| V. SLOPE :  | 33        | 33        |
| V. ZOOM :   | 45        | 50        |

5. Receive 625 Cross-Hatch signal.
6. Adjust V.LIN with [V LINEARITY], [S-CORRECTION] in [DEFLECTION]-[GEOMETRY] at SERVICE MENU.

### V LINEARITY



### S-CORRECTION



7. Adjust V.SIZE with [V SIZE] in [DEFLECTION]-[GEOMETRY] at SERVICE MENU.

NORMAL V.SIZE standard

|        |         | 525 SPCB              | 625 SPCB              |
|--------|---------|-----------------------|-----------------------|
| 4 : 3  |         | 12.8 $\pm$ 0.2 blocks | 12.8 $\pm$ 0.3 blocks |
| 16 : 9 | 14 inch | 157 $\pm$ 2 mm        | 157 $\pm$ 2 mm        |
|        | 20 inch | 221 $\pm$ 3 mm        | 221 $\pm$ 3 mm        |

8. Repeat the manual 6 and 7 until be satisfy the both specifications.
9. Set to 16:9 mode.
10. Adjust 16:9 V.SIZE with [V SIZE] in [DEFLECTION]-[GEOMETRY] at SERVICE MENU  
Confirm these items and data as follows.

|             | (14 inch) | (20 inch) |
|-------------|-----------|-----------|
| V. SCROLL : | 13        | 13        |
| V. SLOPE :  | 25        | 25        |
| V. ZOOM :   | 45        | 50        |

11. Back to 4 : 3 mode.

## 2-14. Horizontal Deflection Adjustment

### 2-14-1. 525 Horizontal Deflection Adjustment

1. Receive 525 SPCB signal.
2. Set to following settings.  
CONTRAST  $\Rightarrow$  80  
BRIGHTNESS  $\Rightarrow$  0
3. Enter service mode.
4. Adjust H.SIZE with [H SIZE] in [DEFLECTION]-[RASTER H] at SERVICE MENU.

NORMAL H.SIZE standard

|       | 525 SPCB              | 625 SPCB              |
|-------|-----------------------|-----------------------|
| 4 : 3 | 16.8 $\pm$ 0.2 blocks | 16.8 $\pm$ 0.3 blocks |

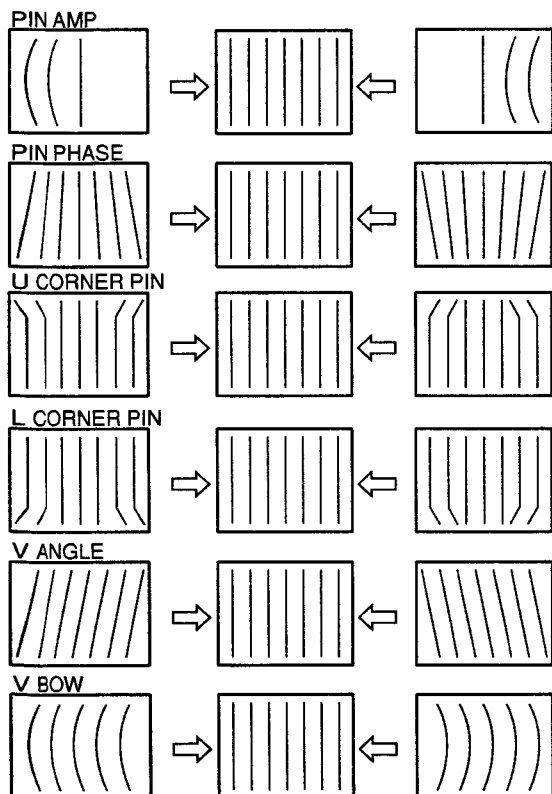
5. Adjust horizontal deflection with [PIN AMP], [PIN PHASE], [U CORNER PIN], [L CORNER PIN], [V ANGLE], [V BOW] in [DEFLECTION]-[GEOMETRY] at SERVICE MENU.
6. Set to 16:9 mode.
7. Adjust horizontal deflection with [PIN AMP], [PIN PHASE], [U CORNER PIN], [L CORNER PIN], [V ANGLE], [V BOW] in [DEFLECTION]-[GEOMETRY] at SERVICE MENU.

## 2-14-2. 625 Horizontal Deflection Adjustment

1. Receive 525 SPCB signal.
2. Set to following settings.  
CONTRAST  $\Rightarrow$  80  
BRIGHTNESS  $\Rightarrow$  0
3. Enter service mode.
4. Adjust H.SIZE with [H SIZE] in [DEFLECTION]-[RASTER H] at SERVICE MENU.  
NORMAL H.SIZE standard

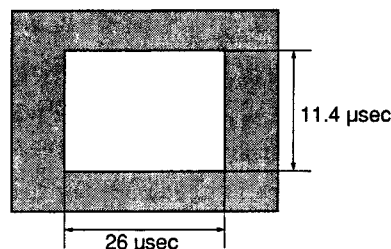
|       | 525 SPCB              | 625 SPCB              |
|-------|-----------------------|-----------------------|
| 4 : 3 | 16.8 $\pm$ 0.2 blocks | 16.8 $\pm$ 0.3 blocks |

5. Adjust horizontal deflection with [PIN AMP], [PIN PHASE], [U CORNER PIN], [L CORNER PIN], [V ANGLE], [V BOW] in [DEFLECTION]-[GEOMETRY] at SERVICE MENU.
6. Set to 16:9 mode.
7. Adjust horizontal deflection with [PIN AMP], [PIN PHASE], [U CORNER PIN], [L CORNER PIN], [V ANGLE], [V BOW] in [DEFLECTION]-[GEOMETRY] at SERVICE MENU.



## 2-15. Sub Contrast Adjustment

1. Set ASPECT to 4:3.
2. Input window pattern signal.  
Window size is less than the following area.



3. Adjust window brightness within standard (description below) using the resistor [SUB CONTRAST] at SERVICE MODE [SIGNAL]-[WHITE BALANCE].

|         |                   |
|---------|-------------------|
| 20 inch | 150 (+10/-10) nit |
| 14 inch | 170 (+10/-10) nit |

4. Set ASPECT to 16:9.
5. Adjust window brightness within standard (description below) using the resistor [SUB CONTRAST] at SERVICE MODE [SIGNAL]-[WHITE BALANCE].

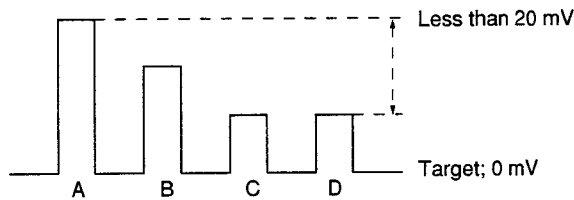
|         |                   |
|---------|-------------------|
| 20 inch | 150 (+10/-10) nit |
| 14 inch | 170 (+10/-10) nit |

## 2-16. Adjustment of NTSC Mode

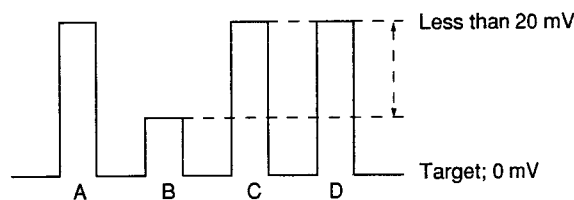
### 2-16-1. NTSC Composite Input

Input NTSC 75% color bar signal.

1. Adjust SUB CHROMA so that CN002-pin5 (JL053) waveform A and D fall on same level.



2. Adjust SUB CHROMA so that CN002-pin5 (JL053) waveform B and C fall on same level.

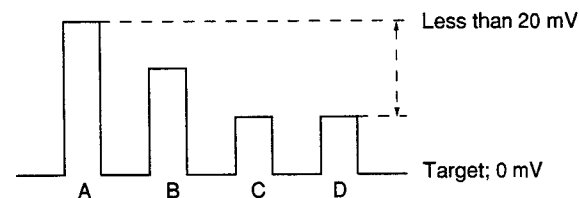


3. Repeat step 1 and 2, and adjust so that A, B, C, D fall on same level.

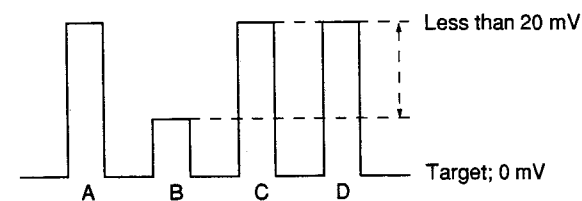
### 2-16-2. NTSC Y/C Input

Input NTSC 75% color bar signal.

1. Adjust SUB CHROMA so that CN002-pin5 (JL053) waveform A and D fall on same level.



2. Adjust SUB PHASE so that CN002-pin5 (JL053) waveform B and C fall on same level.



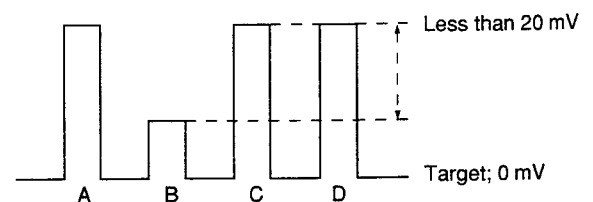
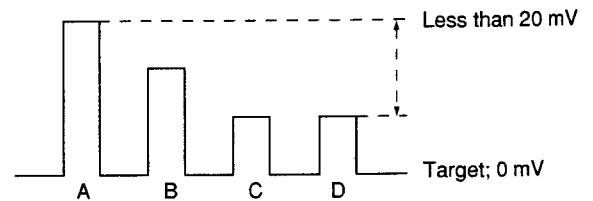
3. Repeat step 1 and 2, and adjust so that A, B, C, D fall on same level.

## 2-17. Adjustment of PAL Mode

### 2-17-1. PAL Composite Input

Input PAL 75% color bar signal.

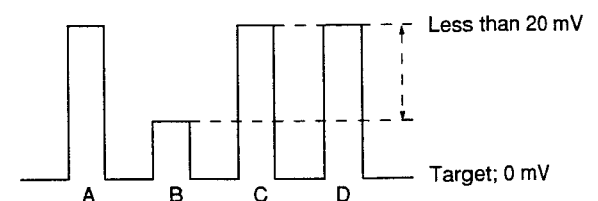
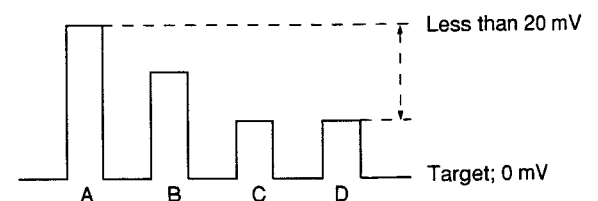
1. Adjust SUB CHROMA so that CN002-pin5 (JL053) waveform A and D fall on same level.



### 2-17-2. PAL Y/C Input

Input PAL 75% color bar signal.

1. Adjust SUB CHROMA so that CN002-pin5 (JL053) waveform A from D fall on same level.





## Section 3

### Safety Related Adjustment

This section explains the adjustment procedure when safety related component(s) is replaced. Perform the following adjustment when the safety related component(s) is replaced.

#### [Preparation]

##### Equipment Required

- VG (programmable video signal generator)  
VG-854 or equivalent
- DC power supply
- Digital VOM  
Advantest TR6845 or equivalent
- Slide induction transformer

#### Note

Start the following adjustments after 5 minutes have passed after the main power is turned on.

When the parts (with a  mark on the circuit diagram) shown below are replaced, confirm the matters described in items 3-1 and 3-2 shown below.

##### A board

-  ..... C101, C102, D102, D103, D312, D314, Q102, Q314, Q315, Q316, Q317, R101, R107, R108, R110, R311, R315, R316, R317, R318, T501 (FBT)

#### 3-1. +B Voltage Check

1. Supply the power source voltage of 127 to 130 V<sub>AC</sub> to the set and turn ON the power.
2. Input the 480/60I all black signal, and adjust the BRIGHT and CONTRAST knobs on the front panel to MIN.
3. Check that the +B voltage is 115.0 to 119.0 V<sub>DC</sub>.  
+B voltage measurement point  
For 14-inch receiver :  
Between T502 FBT pin-4 on A board and GND.  
For 20-inch receiver :  
Between T502 FBT pin-2 on A board and GND.

#### 3-2. Protection Circuit Confirmation

##### 3-2-1. HV Protector Circuit Confirmation

1. Supply AC power voltage of 127 to 130 V<sub>AC</sub> to the unit and turn the POWER ON.
2. Input the 480/60I all black signal, and adjust the BRIGHT and CONTRAST knobs on the front panel to MIN.
3. Confirm that the voltage between the D103 cathode (TP502) and GND on the A board satisfies the standard value.  
Standard value : 19.5 V<sub>DC</sub> or more (14 inch)  
23.5 V<sub>DC</sub> or more (20 inch)
4. Apply the following voltage between the D103 cathode and GND on the A board, and confirm that the protector circuit is not activated.  
23.1 to 23.5 V<sub>DC</sub> (14 inch)  
28.1 to 28.5 V<sub>DC</sub> (20 inch)
5. Apply the following voltage between the cathode (TP502) and GND of D103 on the A board, and confirm that the protector circuit is activated and raster disappears.  
25.3 to 25.5 V<sub>DC</sub> (14 inch)  
30.3 to 30.5 V<sub>DC</sub> (20 inch)

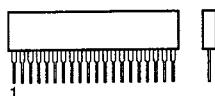


## Section 4

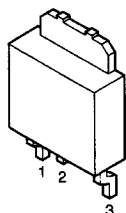
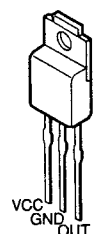
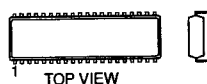
### Semiconductors

**AN5278**

MARKING SIDE VIEW

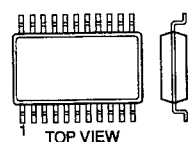


9pin SIP

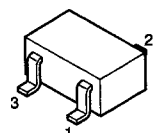
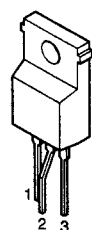
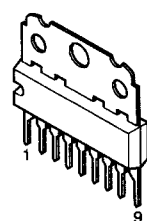
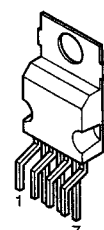
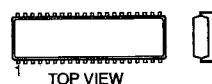
**BA033T****BA05T****BA08T****BA4558****UPC4558C**

8pin DIP

**M24C08-WMN6T**  
**M24C08-WMN6T(A)**  
**MM1113XFBE**  
**NJM2903M**  
**NJM2903M-TE2**

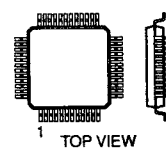


8pin SOP

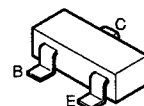
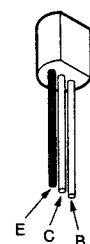
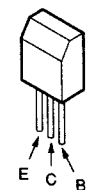
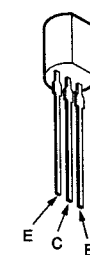
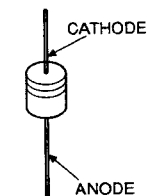
**PST5731MT****SE115N****SE115N (HYBRID)****TDA6108JF/N1B****TDA8177****TDA9181T**

16pin DIP

**TDA9394H/N1/5.518**  
**TDA9394H/N1/5/1179.518**

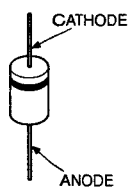


80pin QFP

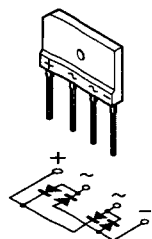
**2SA1037AK-T146-QR****2SA1037AK-T146-R****2SC1623-L5L6****2SC2412K-T-146-QR****2SD601A-QRS-TX****2SD601A-Q-TX****DTA144EKA-T146****DTC114EKA-T146****DTC143EKA-T146****DTC144EKA****DTC144EKA-T146****2SA1091-0****2SA1091O-TPE2****2SC3209LK****2SC3209LK-TP****2SD774-34****2SD774-T-3****2SC3941A-Q(TA)****2SC3941A-QR(TA)****2SD1134****2SD1134-C****2SD1585-LK****2SD2578-CA****DTC143ESA****DTC143ESA-TP****1SS133T-77****D1NS4****D1NS4-TA2****RD15ES-B2****RD15ES-T1B2****RD18ES-B2****RD5.1ES-B2****RD5.1ES-T1B2****RD6.8SB2-T1****RD8.2ES-B3****RD8.2ES-T1B3**

## Diode, LED

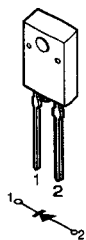
1SS83  
1SS83TD  
D1NL20U  
D1NL20U-TA2  
EL1Z (RECTI)  
EL1Z-V1  
ERD07-15  
GP08D  
GP08DPKG23  
RD6.8ES-T1B2  
RGP02-17EL-6433  
RGP02-17PKG23  
RGP10GPKG23  
RU4AM-T3



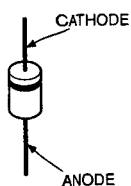
D4SB60L



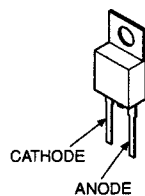
D5S6M



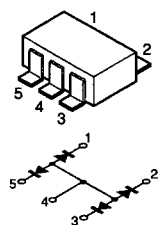
ERC04-06SE  
MTZJ-T-77-18B  
RU-1P  
RU1P-V1  
UF5408



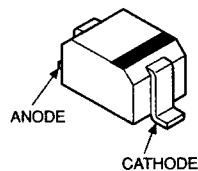
FMG-G2CS



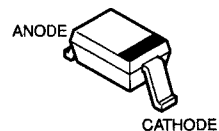
FMN-G12S



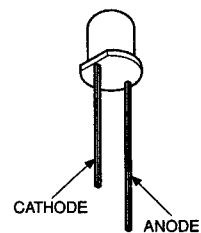
MA111-(K8).S0  
MA111-TX  
MM3Z3V9ST1  
MM3Z4V7T1  
MM3Z5V6ST1  
MM3Z9V1ST1  
RD5.6SB-T1



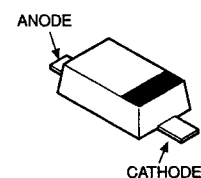
RD10SB2-T1



SLR-56MC3F



UDZSTE-173.9B



## Section 5

### Spare Parts

#### 5-1. Notes on Repair Parts

##### 1. Safety Related Components Warning

###### **WARNING**

Components marked  $\triangle$  are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

###### **WARNHINWEIS**

Les composants identifiés par la marque  $\triangle$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

##### 2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.

Parts List has the present standardized repair parts.

##### 3. Stock of Parts

Parts marked with "o" at SP (Supply Code) column of the Spare Parts list may not be stocked. Therefore, the delivery date will be delayed.

Items with no part number and no description are not stocked because they are seldom required for routine service.

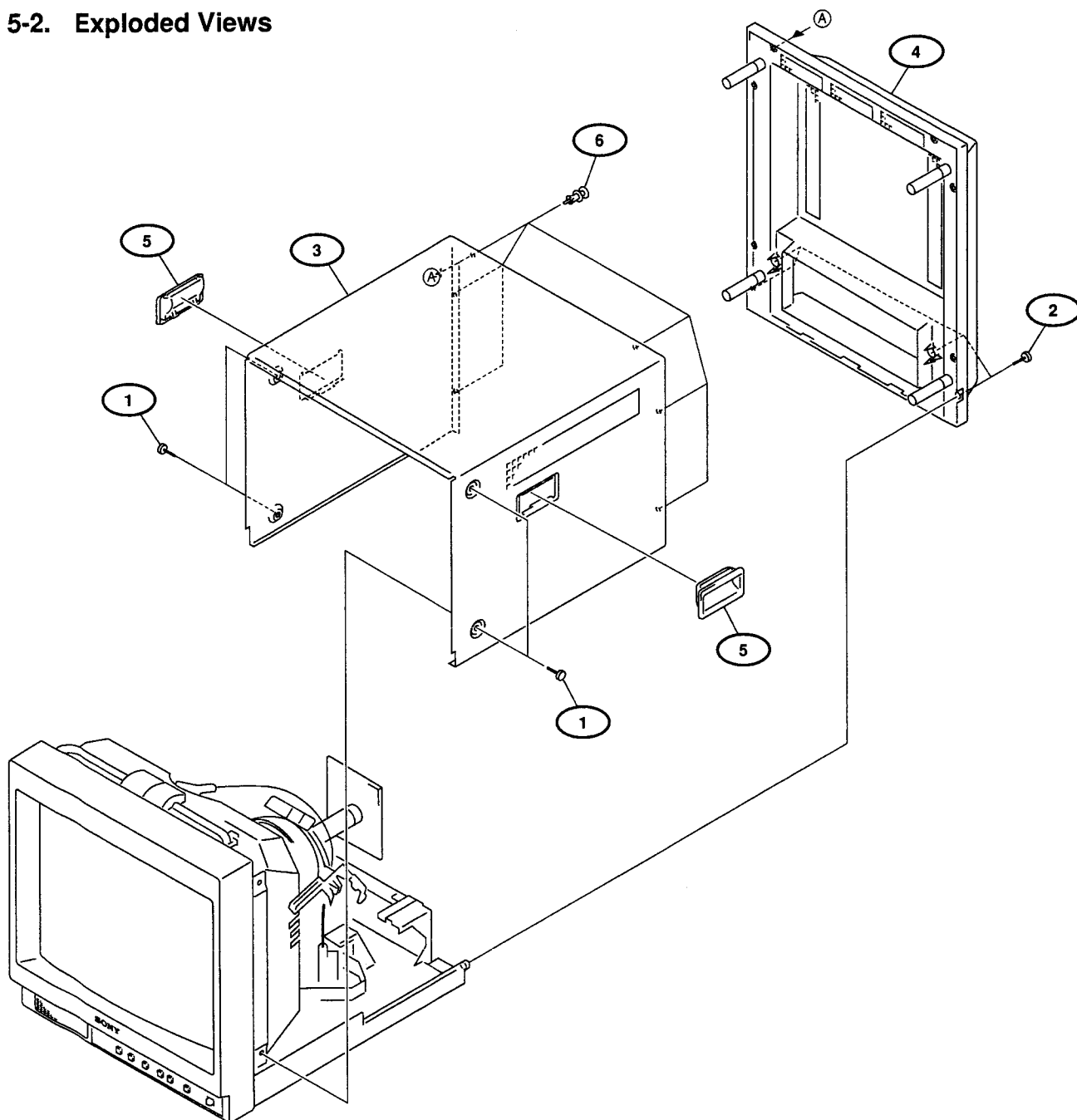
##### 4. Units for Capacitors, Inductors and Resistors

The following units are assumed in Schematic Diagrams, Electrical Parts List and Exploded Views unless otherwise specified.

|            |                 |
|------------|-----------------|
| Capacitors | : $\mu\text{F}$ |
| Inductors  | : $\mu\text{H}$ |
| Resistors  | : $\Omega$      |

## Top Cover Section (14 Inch)

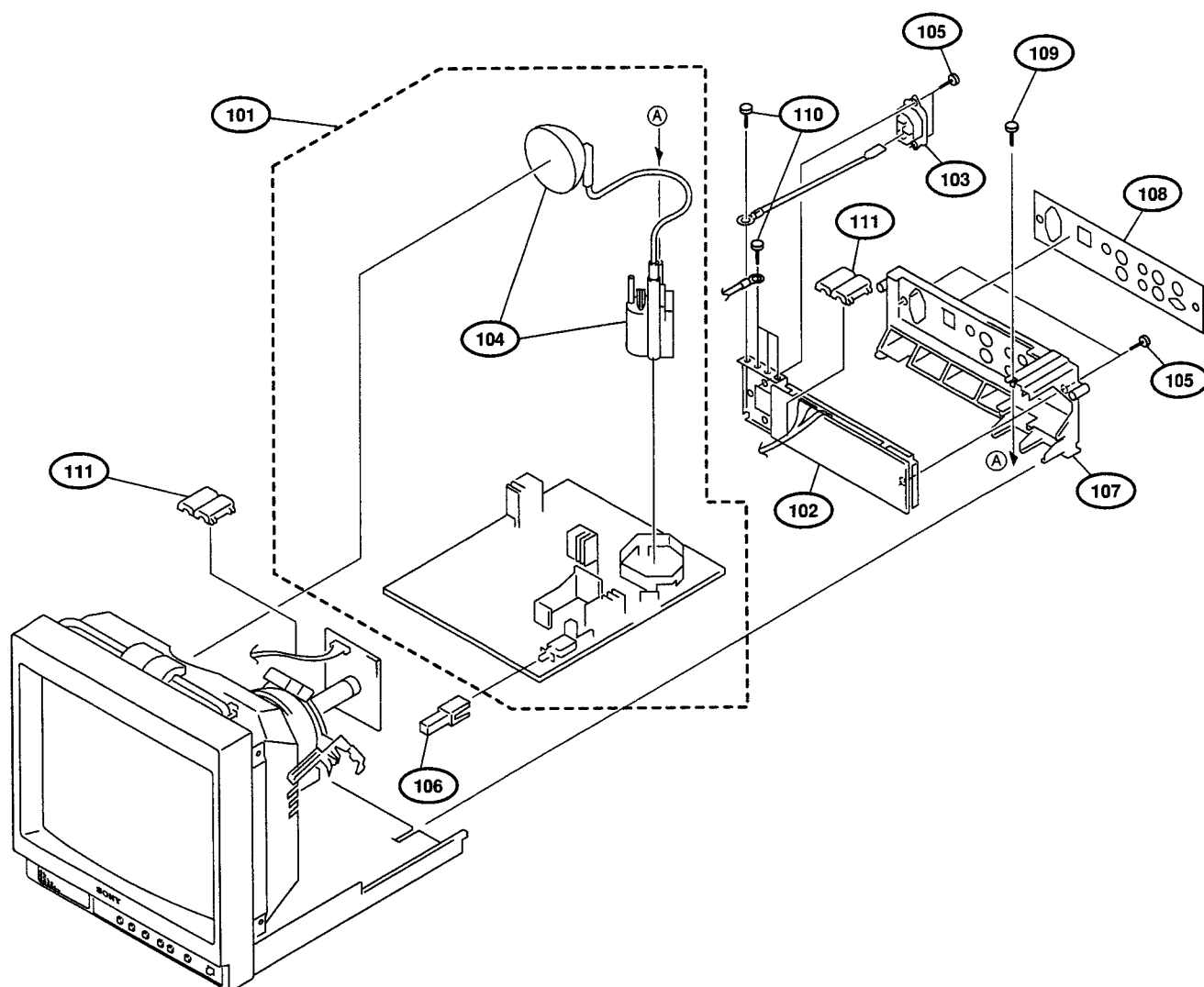
### 5-2. Exploded Views



No. Part No. SP Description

- 1 4-847-802-11 s SET SCREW, CLAW 4X8 EP-FE/CU,NI
- 2 4-039-358-01 s SCREW (4X16), (+) BV TAPPING
- 3 ▲ 4-050-073-33 s CABINET
- 4 ▲ 4-050-081-11 s PANEL, REAR
- 5 ▲ 4-389-320-21 s HANDLE
- 6 4-391-825-01 s RIVET, NYLON

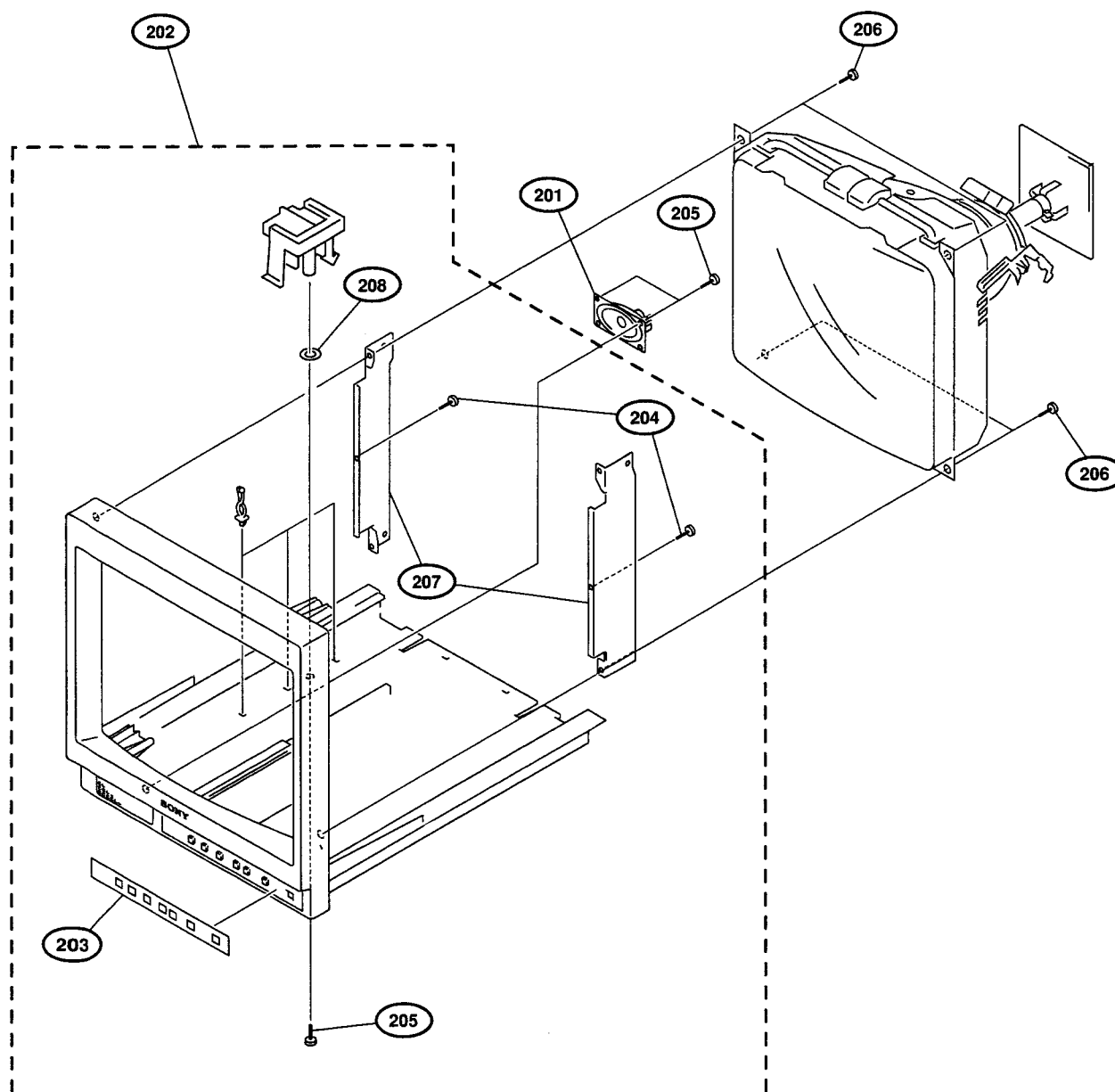
# A, B Boards Section (14 Incl



No. Part No. SP Description

- 101 [ A-1302-228-A s MOUNTED CIRCUIT BOARD, A(14L1)
- A-1302-655-A s MOUNTED CIRCUIT BOARD, A(14L1MDE)
- 102 [ A-1405-329-A s MOUNTED CIRCUIT BOARD, Q(14L1)
- A-1410-483-A s MOUNTED CIRCUIT BOARD, Q(14L1MDE)
- 103 Δ 1-251-263-11 s INLET, AC
- 104 Δ 1-453-446-11 s NX-4525//M3A4(T501)
- 105 4-098-300-01 s SCREW, (+) PSW M3X10 S TIGHT
- 106 4-050-085-01 s BUTTON, POWER SWITCH
- 107 Δ 4-096-612-01 s PANEL, CONNECTOR
- 108 [ 4-096-613-01 s LABEL, CONNECTOR(14L1)
- 4-098-613-11 s LABEL, CONNECTOR(14L1MDE)
- 109 4-039-356-01 s SCREW (3X12), (+) BV TAPPING
- 110 4-050-077-01 s SCREW +PS (M4X8)
- 111 1-543-653-11 s CORE ASSY, BEAD

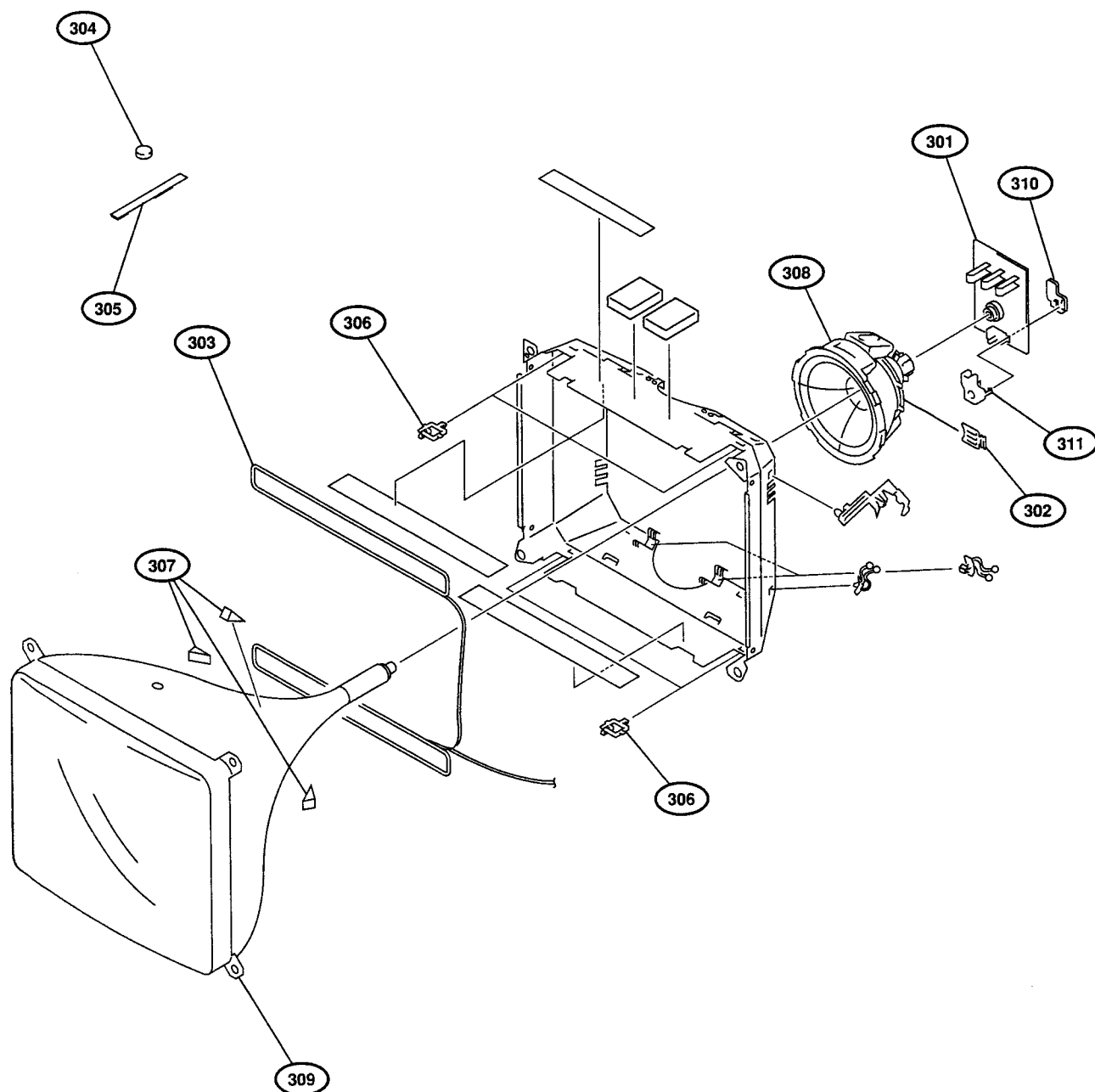
## Chassis and Bezel Assy Section (14 Inch)



No. Part No. SP Description

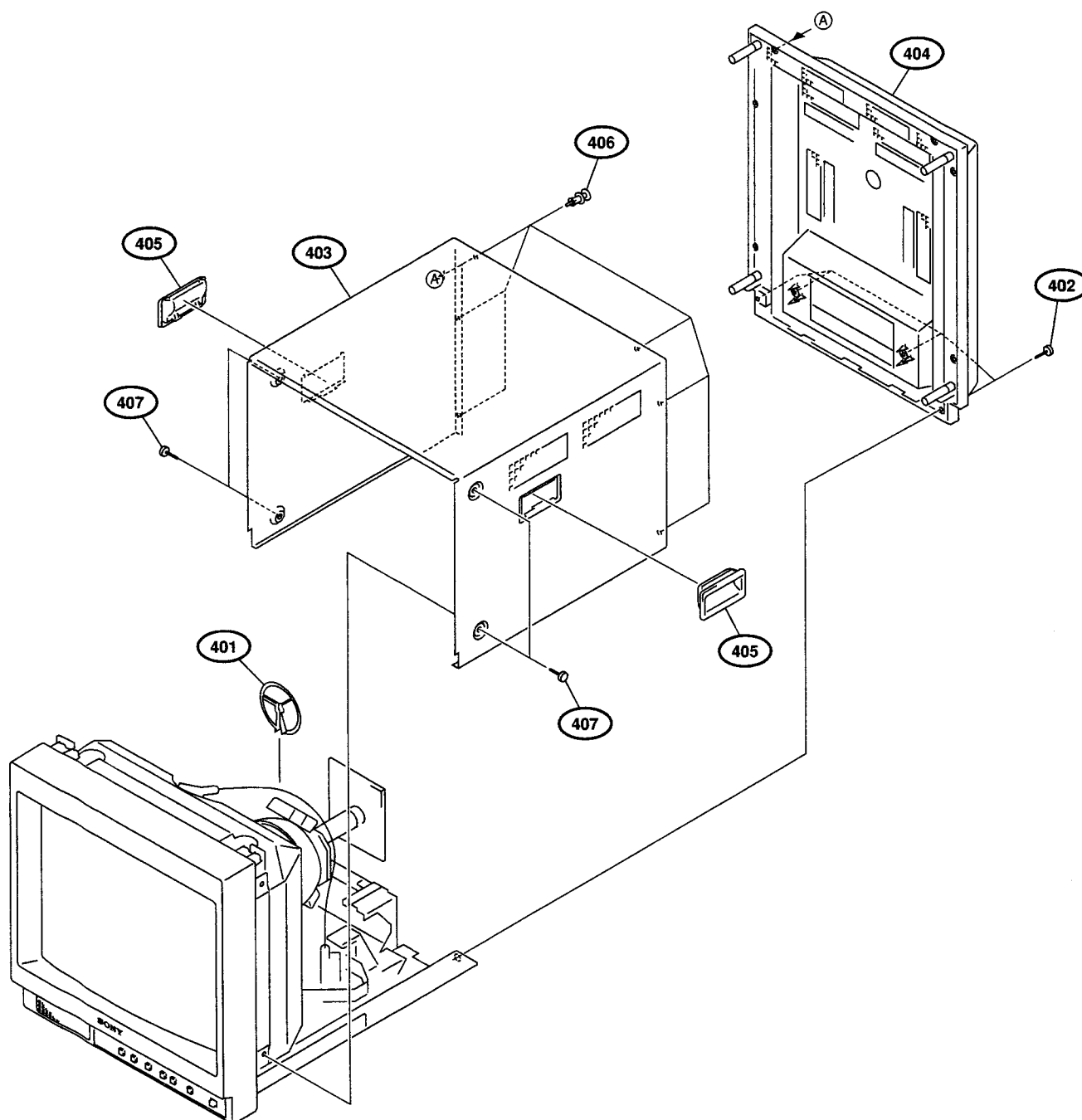
|     |                |                                   |
|-----|----------------|-----------------------------------|
| 201 | △ 1-505-188-11 | s SPEAKER (4X7CM)                 |
| 202 | △ X-4041-887-1 | s BEZNET ASSY(PVM-14L1)           |
|     | △ X-4042-535-1 | s BEZNET ASSY(SSM-14L1)           |
|     | △ X-4042-537-1 | s BEZNET ASSY(PVM-14L1MDE)        |
| 203 | 4-050-088-61   | s LABEL, CONTROL                  |
| 204 | 4-039-358-01   | s SCREW (4X16), (+) BV TAPPING    |
| 205 | 4-039-356-01   | s SCREW (3X12), (+) BV TAPPING    |
| 206 | 4-203-648-01   | s SCREW (5), SELF TAPPING         |
| 207 | 4-050-089-01   | s BRACKET, SIDE                   |
| 208 | 4-308-030-31   | s WASHER, DOUBLE STICK TAPE (VFS) |

# Picture Tube Section (14 Inc



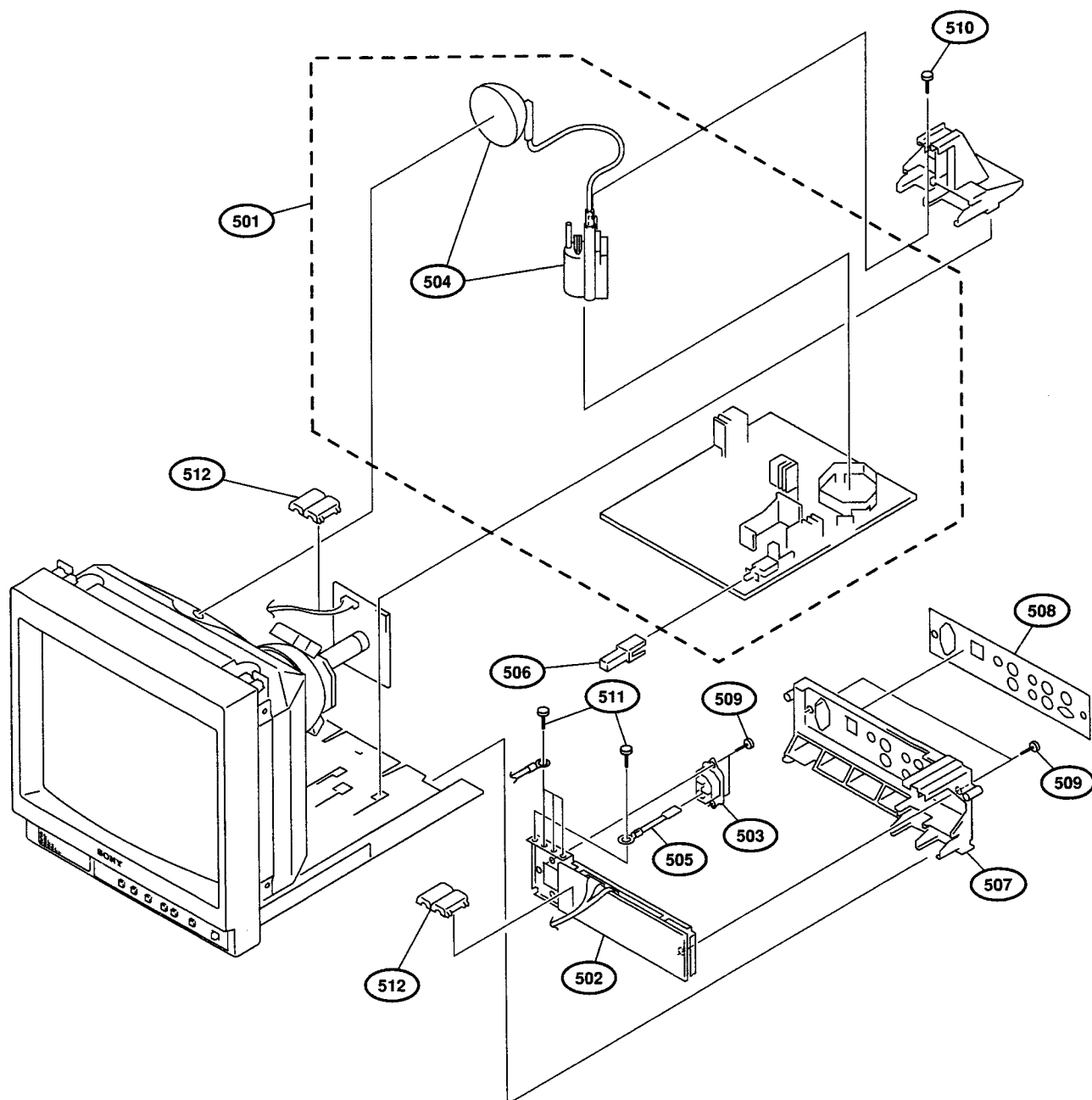
| No. | Part No.       | SP Description                |
|-----|----------------|-------------------------------|
| 301 | A-1405-326-A   | s MOUNTED CIRCUIT BOARD, C    |
| 302 | X-2105-533-1   | s PLATE ASSY, CORRECTION, TLH |
| 303 | Δ 1-426-442-31 | s COIL, DEMAGNETIZATION       |
| 304 | 1-452-032-00   | s MAGNET, DISC                |
| 305 | 4-051-736-42   | s PIECE A (90), CONV, CORRECT |
| 306 | 4-316-015-00   | o HOLDER, WIRE                |
| 307 | 4-203-658-01   | s SPACER, DY                  |
| 308 | Δ 8-451-472-12 | s DY Y14MGAT                  |
| 309 | Δ 8-738-363-05 | s PICTURE TUBE                |
| 310 | 4-374-912-01   | o COVER (MAIN), CV VOL        |
| 311 | 4-374-913-01   | o COVER (REAR LID), CV VOL    |

## Top Cover Section (20 Inch)



| No.   | Part No.     | SP Description                    |
|-------|--------------|-----------------------------------|
| 401   | 3-704-372-01 | s HOLDER, HV CABLE                |
| 402   | 4-039-358-01 | s SCREW (4X16), (+) BV TAPPING    |
| 403 Δ | 4-050-060-33 | s CABINET                         |
| 404 Δ | 4-050-063-11 | s PANEL, REAR                     |
| 405 Δ | 4-389-320-21 | s HANDLE                          |
| 406   | 4-391-825-01 | s RIVET, NYLON                    |
| 407   | 4-847-802-11 | s SET SCREW, CLAW 4X8 EP-FE/CU,NI |

## A, B Boards Section (20 Inc



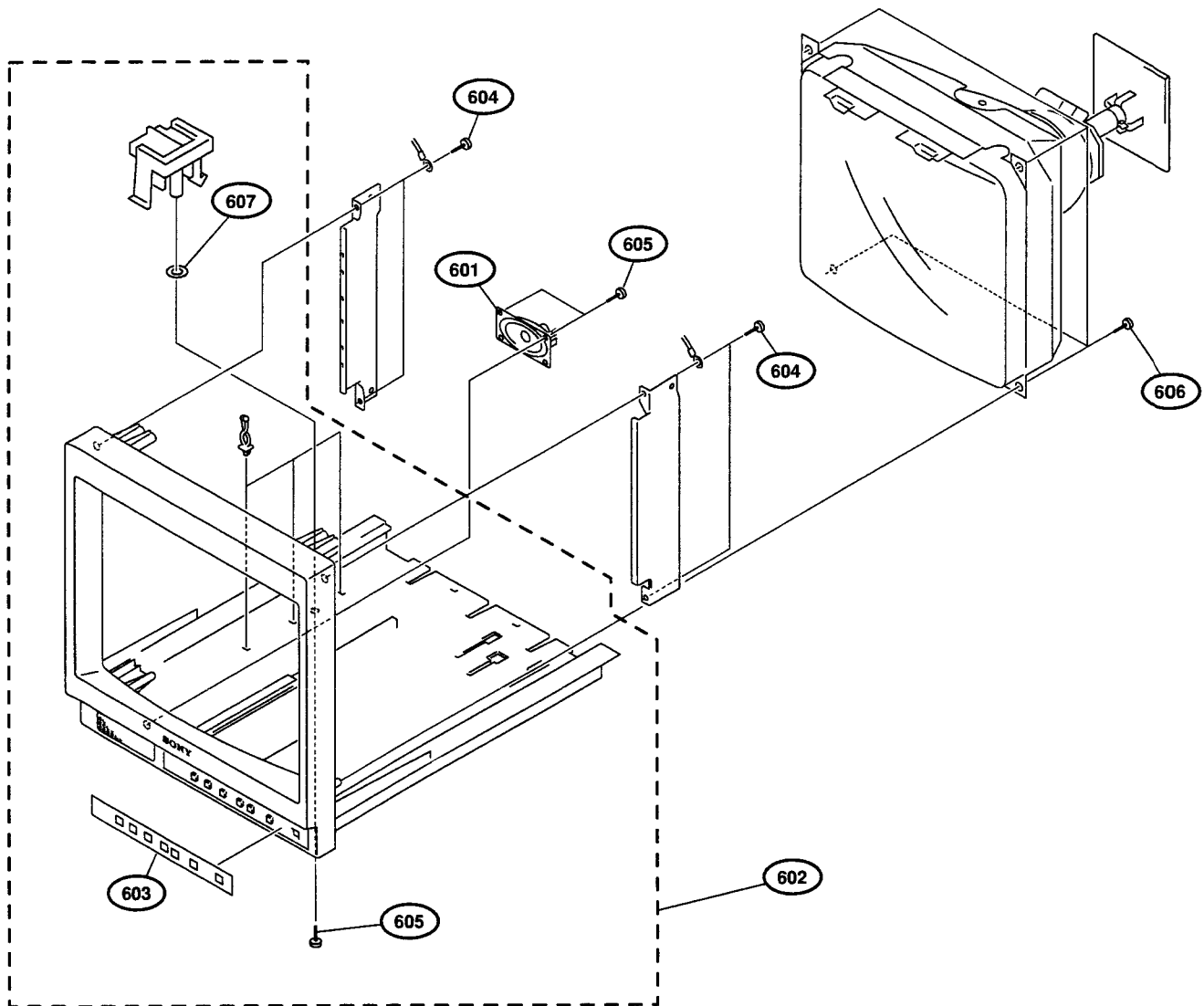
No. Part No. SP Description

501 A-1302-229-A s MOUNTED CIRCUIT BOARD, A  
 502 A-1405-329-A s MOUNTED CIRCUIT BOARD, Q  
 503 ▲ 1-251-263-11 s INLET, AC  
 504 ▲ 1-453-446-21 s NX-4525//Z2A4 (T501)  
 505 1-900-214-07 o WIRE ASSY, SEFETY EARTH

506 4-050-085-01 s BUTTON, POWER SWITCH  
 507 ▲ 4-096-612-01 s PANEL, CONNECTOR  
 508 4-096-613-01 s LABEL, CONNECTOR  
 509 4-098-300-01 s SCREW, (+) PSW M3X10 S TIGHT  
 510 4-039-356-01 s SCREW (3X12), (+) BV TAPPING

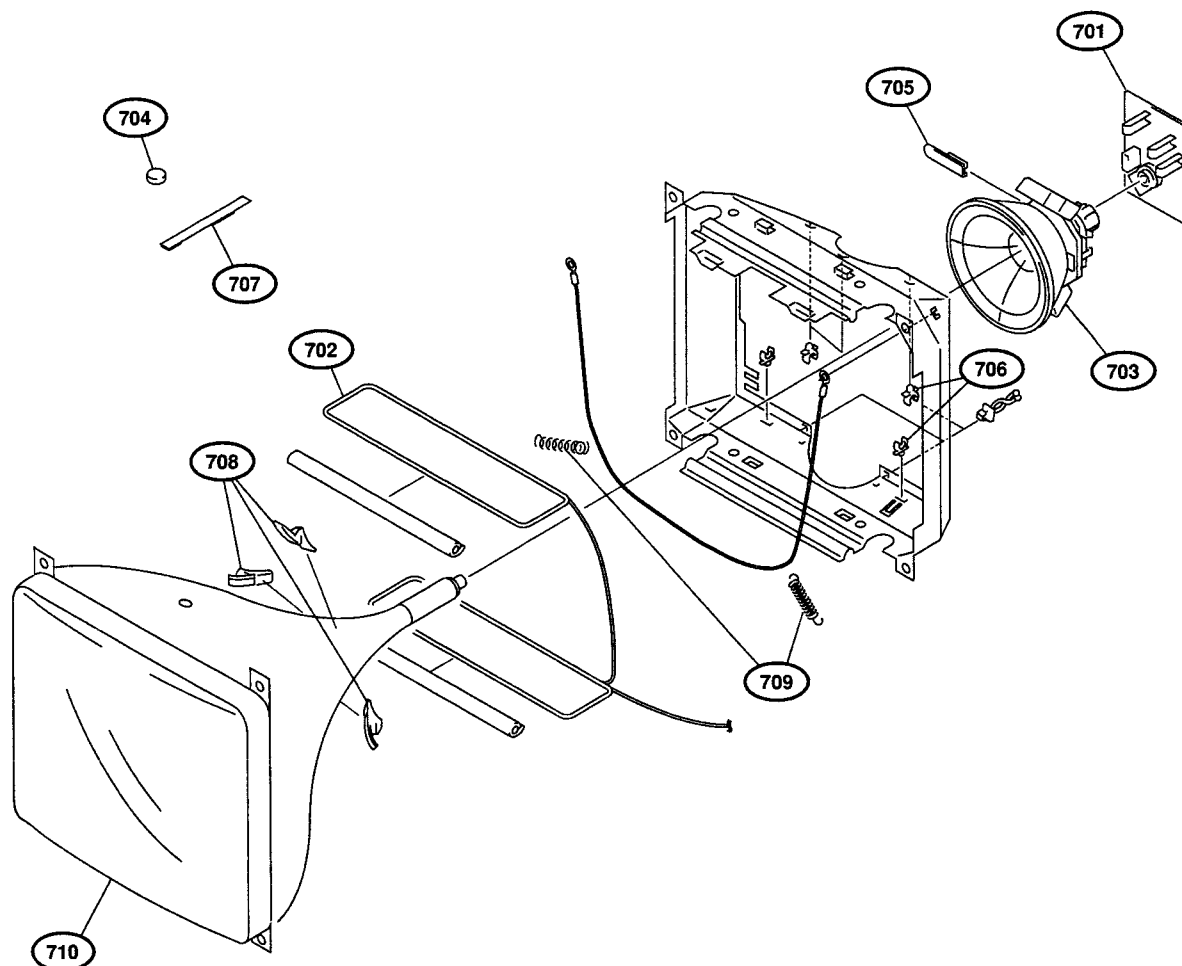
511 4-050-077-01 s SCREW +PS (M4X8)  
 512 1-543-653-11 s CORE ASSY, BEAD

### Chassis and Bezel Assy Section (20 Inch)



| No. | Part No.       | SP Description                    |
|-----|----------------|-----------------------------------|
| 601 | Δ 1-505-188-11 | s SPEAKER (4X7CM)                 |
| 602 | Δ X-4041-886-1 | s BEZNET ASSY (PVM)               |
|     | Δ X-4042-536-1 | s BEZNET ASSY (SSM)               |
| 603 | 4-050-088-61   | s LABEL, CONTROL                  |
| 604 | 4-039-358-01   | s SCREW (4X16), (+) BV TAPPING    |
| 605 | 4-039-356-01   | s SCREW (3X12), (+) BV TAPPING    |
| 606 | 4-203-648-01   | s SCREW (5), SELF TAPPING         |
| 607 | 4-308-030-31   | s WASHER, DOUBLE STICK TAPE (VFS) |

# Picture Tube Section (20 Incl



| No. | Part No.       | SP Description               |
|-----|----------------|------------------------------|
| 701 | A-1405-331-A   | s MOUNTED CIRCUIT BOARD, C   |
| 702 | Δ 1-411-750-31 | s COIL, DEMAGNETIC           |
| 703 | Δ 1-451-349-13 | s DEFLECTION YOKE (Y20FZA)   |
| 704 | 1-452-032-00   | s MAGNET, DISC               |
| 705 | 4-030-120-01   | s PLATE, CORRECTION, TLV     |
| 706 | 4-041-021-02   | s HOLDER, DEGAUSS COIL       |
| 707 | 4-051-736-42   | s PIECE A(90), CONV, CORRECT |
| 708 | 4-203-658-01   | s SPACER, DY                 |
| 709 | 4-369-318-31   | s SPRING, TENSION            |
| 710 | Δ 8-737-279-05 | s PICTURE TUBE (AUS)         |
|     | Δ 8-736-135-05 | s PICTURE TUBE               |

### 5-3. Electrical Parts List

A BOARD (FOR 14 INCH)

| Ref. No.<br>or Q'ty | Part No.     | SP Description                      |
|---------------------|--------------|-------------------------------------|
| 1pc                 | A-1302-228-A | s MOUNTED CIRCUIT BOARD, A(14L1)    |
| 1pc                 | A-1302-655-A | s MOUNTED CIRCUIT BOARD, A(14L1MDE) |
| 2pcs                | 2-371-561-00 | s BUSHING (P), INSULATING           |
| 1pc                 | 4-200-407-01 | s HOLDER, IC                        |
| 2pcs                | 4-201-023-01 | s SPACER, INSULATING                |
| 7pcs                | 4-382-854-11 | s SCREW, +PSW M3X10 (EP-FE/ZNBK/CM  |
| C001                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B    |
| C003                | 1-164-227-11 | s CAPACITOR, CERAMIC 0.022MF/25V    |
| C004                | 1-162-918-11 | s CAPACITOR, CERAMIC 18PF/50V CH    |
| C005                | 1-162-918-11 | s CAPACITOR, CERAMIC 18PF/50V CH    |
| C006                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF     |
| C008                | 1-126-933-11 | s CAPACITOR, ELECT 100MF/16V        |
| C011                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF     |
| C012                | 1-164-227-11 | s CAPACITOR, CERAMIC 0.022MF/25V    |
| C013                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B    |
| C015                | 1-136-165-00 | s CAPACITOR, FILM 0.1MF/50V (PP)    |
| C016                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF     |
| C017                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF     |
| C018                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF     |
| C019                | 1-125-838-11 | s CAPACITOR, CERAMIC 2.2MF/6.3V     |
| C020                | 1-162-968-11 | s CAPACITOR, CERAMIC 4700PF/50V B   |
| C021                | 1-109-982-11 | s CAPACITOR, CHIP CERAMIC 1MF/10V   |
| C022                | 1-162-968-11 | s CAPACITOR, CERAMIC 4700PF/50V B   |
| C023                | 1-164-227-11 | s CAPACITOR, CERAMIC 0.022MF/25V    |
| C024                | 1-164-227-11 | s CAPACITOR, CERAMIC 0.022MF/25V    |
| C025                | 1-127-715-11 | s CAPACITOR, CERAMIC 0.22MF B1608   |
| C026                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF     |
| C027                | 1-162-962-11 | s CAPACITOR, CERAMIC 470PF/50V(B)   |
| C028                | 1-162-964-11 | s CAPACITOR, CERAMIC 1000PF/50V B   |
| C029                | 1-126-935-11 | s CAPACITOR, ELECT 470MF/16V        |
| C030                | 1-126-926-11 | s CAPACITOR, ELECT 1000MF/10V       |
| C031                | 1-126-963-11 | s CAPACITOR, ELECT 4.7MF/50V        |
| C032                | 1-126-935-11 | s CAPACITOR, ELECT 470MF/16V        |
| C033                | 1-126-933-11 | s CAPACITOR, ELECT 100MF/16V        |
| C034                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B    |
| C035                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B    |
| C036                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF     |
| C037                | 1-126-935-11 | s CAPACITOR, ELECT 470MF/16V        |
| C038                | 1-126-933-11 | s CAPACITOR, ELECT 100MF/16V        |
| C040                | 1-126-933-11 | s CAPACITOR, ELECT 100MF/16V        |
| C041                | 1-126-933-11 | s CAPACITOR, ELECT 100MF/16V        |
| C043                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B    |
| C044                | 1-126-961-11 | s CAPACITOR, ELECT 2.2MF/50V        |
| C045                | 1-162-960-11 | s CAPACITOR, CERAMIC 220PF/50V(B)   |
| C046                | 1-162-964-11 | s CAPACITOR, CERAMIC 1000PF/50V B   |
| C047                | 1-126-963-11 | s CAPACITOR, ELECT 4.7MF/50V        |
| C048                | 1-125-891-11 | s CAPACITOR CERAMIC 0.47MF/10V      |
| C049                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF     |
| C050                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF     |
| C051                | 1-107-823-11 | s CAPACITOR, CERAMIC 0.47MF/16V     |
| C052                | 1-107-823-11 | s CAPACITOR, CERAMIC 0.47MF/16V     |
| C053                | 1-125-891-11 | s CAPACITOR CERAMIC 0.47MF/10V      |
| C054                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF     |
| C055                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B    |
| C056                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B    |
| C057                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B    |
| C058                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B    |
| C059                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B    |
| C060                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B    |
| C061                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B    |

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| Ref. No.<br>or Q'ty | Part No.       | SP Description                     |
|---------------------|----------------|------------------------------------|
| C062                | 1-164-245-11   | s CAPACITOR, CERAMIC 0.015MF/25V   |
| C063                | 1-107-826-11   | s CAPACITOR, CHIP CERAMIC 0.1MF    |
| C064                | 1-162-970-11   | s CAPACITOR CERAMIC 0.01MF/25V B   |
| C065                | 1-162-970-11   | s CAPACITOR CERAMIC 0.01MF/25V B   |
| C066                | 1-162-970-11   | s CAPACITOR CERAMIC 0.01MF/25V B   |
| C067                | 1-162-970-11   | s CAPACITOR CERAMIC 0.01MF/25V B   |
| C068                | 1-162-970-11   | s CAPACITOR CERAMIC 0.01MF/25V B   |
| C101                | 1-162-970-11   | s CAPACITOR CERAMIC 0.01MF/25V B   |
| C102                | 1-107-635-11   | s CAPACITOR, ELECT 4.7MF/160V      |
| C301                | 1-126-963-11   | s CAPACITOR, ELECT 4.7MF/50V       |
| C302                | 1-162-967-11   | s CAPACITOR, CERAMIC 3300PF/50V B  |
| C312                | 1-126-964-11   | s CAPACITOR, ELECT 10MF/50V        |
| C333                | 1-107-826-11   | s CAPACITOR, CHIP CERAMIC 0.1MF    |
| C334                | 1-107-826-11   | s CAPACITOR, CHIP CERAMIC 0.1MF    |
| C341                | 1-161-830-00   | s CAPACITOR, CERAMIC; 4700PF/500V  |
| C376                | 1-162-927-11   | s CAPACITOR, CERAMIC 100PF/50V CH  |
| C377                | 1-162-927-11   | s CAPACITOR, CERAMIC 100PF/50V CH  |
| C378                | 1-162-970-11   | s CAPACITOR CERAMIC 0.01MF/25V B   |
| C379                | 1-162-970-11   | s CAPACITOR CERAMIC 0.01MF/25V B   |
| C380                | 1-162-927-11   | s CAPACITOR, CERAMIC 100PF/50V CH  |
| C385                | 1-162-964-11   | s CAPACITOR, CERAMIC 1000PF/50V B  |
| C386                | 1-162-964-11   | s CAPACITOR, CERAMIC 1000PF/50V B  |
| C387                | 1-126-965-11   | s CAPACITOR, ELECT 22MF/50V        |
| C388                | 1-165-176-11   | s CAPACITOR, CERAMIC 47000PF/16V   |
| C389                | 1-162-927-11   | s CAPACITOR, CERAMIC 100PF/50V CH  |
| C500                | 1-165-441-81   | s CAPACITOR, ELECT 33MF/160V       |
| C501                | 1-117-838-11   | s CAP, METAL PP FILM 8200PF 1.5KV  |
| C502                | 1-130-338-11   | s CAPACITOR, FILM 0.01MF/630V      |
| C503                | 1-162-116-00   | s CAPACITOR, CERAMIC 680PF/2KVDC   |
| C504                | 1-162-116-00   | s CAPACITOR, CERAMIC 680PF/2KVDC   |
| C505                | 1-137-350-11   | s CAPACITOR FILM 0.015MF/100V      |
| C507                | 1-117-674-11   | s CAP, PP FILM (S) 1.8MF/200V      |
| C508                | 1-102-228-00   | s CAPACITOR, CERAMIC 470PF/500V    |
| C509                | 1-107-943-11   | s CAPACITOR, ELECT 10MF/160V       |
| C510                | 1-107-846-11   | s CAPACITOR FILM 0.10MF/400V(S)    |
| C511                | 1-106-371-00   | s CAPACITOR FILM 0.015MF/200V      |
| C512                | 1-102-228-00   | s CAPACITOR, CERAMIC 470PF/500V    |
| C514                | 1-107-901-11   | s CAPACITOR, ELECT 0.47MF/50V(10s) |
| C516                | 1-162-116-00   | s CAPACITOR, CERAMIC 680PF/2KV     |
| C517                | 1-162-116-00   | s CAPACITOR, CERAMIC 680PF/2KV     |
| C518                | 1-137-479-11   | s CAPASITOR FILM 1MF/400V          |
| C519                | 1-137-350-11   | s CAPACITOR FILM 0.015MF/100V      |
| C521                | 1-107-906-11   | s CAPACITOR, ELECT 10MF/50V        |
| C522                | 1-162-965-11   | s CAPACITOR, CERAMIC 1500PF/50V B  |
| C523                | 1-115-350-51   | s CAPACITOR, CERAMIC 4700PF F      |
| C551                | 1-126-968-11   | s CAPACITOR, ELECT 100MF/50V       |
| C552                | 1-137-401-11   | s CAPACITOR, FILM 0.22MF/100V      |
| C553                | 1-104-709-11   | s CAPACITOR, ELECT 4.7MF/160V      |
| C554                | 1-162-964-11   | s CAPACITOR, CERAMIC 1000PF/50V B  |
| C555                | 1-126-967-11   | s CAPACITOR, ELECT 47MF/50V        |
| C556                | 1-126-965-11   | s CAPACITOR, ELECT 22MF/50V        |
| C557                | 1-162-964-11   | s CAPACITOR, CERAMIC 1000PF/50V B  |
| C559                | 1-115-339-11   | s CAPACITOR, CERAMIC 0.1MF/50V     |
| C601                | Δ 1-165-437-11 | s CAPACITOR, PP FILM 0.22MF        |
| C602                | Δ 1-165-437-11 | s CAPACITOR, PP FILM 0.22MF        |
| C603                | Δ 1-113-907-51 | s CAPACITOR, CERAMIC 2200PF/250V   |
| C604                | 1-164-156-11   | s CAPACITOR, CERAMIC 0.1MF/25V F   |
| C605                | Δ 1-113-907-51 | s CAPACITOR, CERAMIC 2200PF/250V   |
| C606                | 1-126-947-11   | s CAPACITOR, ELECT 47MF/35V        |

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| Ref. No.<br>or Q'ty | Part No.       | SP Description                    |
|---------------------|----------------|-----------------------------------|
| C607                | Δ 1-165-437-11 | s CAPACITOR, PP FILM 0.22MF       |
| C608                | 1-113-907-51   | s CAPACITOR, CERAMIC 2200PF/250V  |
| C609                | 1-113-907-51   | s CAPACITOR, CERAMIC 2200PF/250V  |
| C610                | 1-113-907-51   | s CAPACITOR, CERAMIC 2200PF/250V  |
| C611                | 1-113-907-51   | s CAPACITOR, CERAMIC 2200PF/250V  |
| C612                | Δ 1-117-753-11 | s CAPACITOR ELECT 470MF/450V      |
| C614                | 1-104-574-11   | s CAPACITOR, CERAMIC 4700PF/2KV   |
| C616                | 1-126-947-11   | s CAPACITOR, ELECT 47MF/35V       |
| C617                | 1-107-826-11   | s CAPACITOR, CHIP CERAMIC 0.1MF   |
| C618                | 1-117-626-11   | s CAPACITOR FILM 2000PF/1600DC    |
| C619                | 1-107-444-11   | s CAPACITOR, CERAMIC 100PF/2KVDC  |
| C620                | 1-104-665-11   | s CAPACITOR, ELECT 100MF/25V      |
| C621                | 1-100-657-91   | s CAPACITOR, CERAMIC 470PF/2KV    |
| C622                | 1-162-962-11   | s CAPACITOR, CERAMIC 470PF/50V(B) |
| C623                | 1-130-471-00   | s CAPACITOR FILM 0.001MF/50V PET  |
| C624                | 1-165-176-11   | s CAPACITOR, CERAMIC 47000PF/16V  |
| C650                | Δ 1-113-903-11 | s CAPACITOR, CERAMIC 0.001MF/250V |
| C651                | 1-104-999-11   | s CAPACITOR FILM 0.1MF/200V PETP  |
| C652                | 1-107-655-11   | s CAPASITOR ERECT 47MF/250V       |
| C653                | 1-125-494-11   | s CAPACITOR, ELECT 560MF/160V     |
| C655                | 1-107-648-91   | s CAPACITOR ELECT 100MF/200V      |
| C656                | 1-126-943-11   | s CAPACITOR, ELECT 2200MF/25V     |
| C657                | 1-126-943-11   | s CAPACITOR, ELECT 2200MF/25V     |
| C658                | 1-126-768-11   | s CAPACITOR, ELECT 2200MF/16V     |
| C659                | 1-111-066-11   | s CAPACITOR, ELECT 820MF/25V 105  |
| C660                | 1-126-942-61   | s CAPACITOR, ELECT 1000MF/25V     |
| C661                | 1-107-914-11   | s CAPACITOR, ELECT 100MF/50V      |
| C662                | 1-126-942-61   | s CAPACITOR, ELECT 1000MF/25V     |
| C663                | 1-126-935-11   | s CAPACITOR, ELECT 470MF/16V      |
| C664                | 1-107-826-11   | s CAPACITOR, CHIP CERAMIC 0.1MF   |
| C665                | 1-107-826-11   | s CAPACITOR, CHIP CERAMIC 0.1MF   |
| C666                | 1-126-935-11   | s CAPACITOR, ELECT 470MF/16V      |
| C667                | 1-107-826-11   | s CAPACITOR, CHIP CERAMIC 0.1MF   |
| C668                | 1-107-826-11   | s CAPACITOR, CHIP CERAMIC 0.1MF   |
| C669                | 1-126-964-11   | s CAPACITOR, ELECT 10MF/50V       |
| C670                | 1-126-965-11   | s CAPACITOR, ELECT 22MF/50V       |
| C671                | 1-128-528-11   | s CAPACITOR, ELECT 470MF/25V      |
| C672                | 1-126-935-11   | s CAPACITOR, ELECT 470MF/16V      |
| C1453               | 1-162-117-00   | s CAPACITOR, CERAMIC 100PF/500V B |
| C1461               | 1-164-230-11   | s CAPACITOR, CERAMIC 220PF/50V    |
| C1462               | 1-162-927-11   | s CAPACITOR, CERAMIC 100PF/50V CH |
| C1463               | 1-162-927-11   | s CAPACITOR, CERAMIC 100PF/50V CH |
| C1464               | 1-115-339-11   | s CAPACITOR, CERAMIC 0.1MF/50V    |
| C1465               | 1-115-339-11   | s CAPACITOR, CERAMIC 0.1MF/50V    |
| C1466               | 1-115-339-11   | s CAPACITOR, CERAMIC 0.1MF/50V    |
| C1467               | 1-163-021-91   | s CAPACITOR, CERAMIC 0.01MF/50V   |
| C1468               | 1-162-117-00   | s CAPACITOR, CERAMIC 100PF/500V B |
| C1471               | 1-162-964-11   | s CAPACITOR, CERAMIC 1000PF/50V B |
| C1481               | 1-162-964-11   | s CAPACITOR, CERAMIC 1000PF/50V B |
| C1486               | 1-162-927-11   | s CAPACITOR, CERAMIC 100PF/50V CH |
| C1488               | 1-126-964-11   | s CAPACITOR, ELECT 10MF/50V       |
| C3501               | 1-107-714-11   | s CAPACITOR, ELECT 10MF/50V (BP)  |
| C3502               | 1-107-905-11   | s CAPACITOR, ELECT 4.7MF/50V      |
| C3503               | 1-126-963-11   | s CAPACITOR, ELECT 4.7MF/50V      |
| C3504               | 1-107-905-11   | s CAPACITOR, ELECT 4.7MF/50V      |
| C3505               | 1-162-968-11   | s CAPACITOR, CERAMIC 4700PF/50V B |
| C3506               | 1-126-964-11   | s CAPACITOR, ELECT 10MF/50V       |
| C3507               | 1-165-176-11   | s CAPACITOR, CERAMIC 47000PF/16V  |
| C3510               | 1-104-665-11   | s CAPACITOR, ELECT 100MF/25V      |
| C3511               | 1-126-964-11   | s CAPACITOR, ELECT 10MF/50V       |

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| Ref. No.<br>or Q'ty | Part No.       | SP Description                 |         |
|---------------------|----------------|--------------------------------|---------|
| CLP101              | 4-042-408-01   | o PIN, COATING LEAD            |         |
| CN001               | 1-564-508-11   | o PLUG, CONNECTOR (5P)         |         |
| CN002               | 1-564-511-11   | o PLUG, CONNECTOR (8P)         |         |
| CN003               | 1-564-515-11   | o PLUG, CONNECTOR (12P)        |         |
| CN004               | 1-564-510-11   | o PLUG, CONNECTOR (7P)         |         |
| CN501               | 1-580-798-11   | o CONNECTOR PIN (DY) 6P        |         |
| CN502               | 1-691-096-11   | o PIN, CONNECTOR (PC BOARD) 8P |         |
| CN503               | 1-695-915-11   | s TAB (CONTACT)                |         |
| CN601               | Δ 1-580-843-11 | o PIN, CONNECTOR (POWER)       |         |
| CN602               | Δ 1-508-786-00 | o 2P PLUG                      |         |
| CN3502              | 1-564-506-11   | o PLUG, CONNECTOR (3P)         |         |
| D004                | 8-719-036-94   | s DIODE RD5.6SB-T1             |         |
| D006                | 8-719-083-58   | s DIODE UDZSTE-173.9B          |         |
| D009                | 6-500-028-01   | s DIODE MM3Z9V1ST1             |         |
| D010                | 8-719-036-94   | s DIODE RD5.6SB-T1             |         |
| D011                | 8-719-036-94   | s DIODE RD5.6SB-T1             |         |
| D012                | 6-500-028-01   | s DIODE MM3Z9V1ST1             |         |
| D014                | 8-719-036-94   | s DIODE RD5.6SB-T1             |         |
| D017                | 8-719-991-33   | s DIODE 1SS133T-77             |         |
| D018                | 8-719-073-01   | s DIODE MA111-(K8).S0          |         |
| D019                | 8-719-073-01   | s DIODE MA111-(K8).S0          |         |
| D020                | 8-719-073-01   | s DIODE MA111-(K8).S0          |         |
| D021                | 8-719-073-01   | s DIODE MA111-(K8).S0          |         |
| D022                | 8-719-073-01   | s DIODE MA111-(K8).S0          |         |
| D023                | 8-719-073-01   | s DIODE MA111-(K8).S0          |         |
| D102                | 8-719-037-16   | s DIODE RD10SB2-T1             |         |
| D103                | 8-719-302-43   | s DIODE EL1Z                   | (RECTI) |
| D301                | 8-719-110-49   | s DIODE RD18ES-B2              |         |
| D302                | 8-719-302-43   | s DIODE EL1Z                   | (RECTI) |
| D312                | 8-719-073-01   | s DIODE MA111-(K8).S0          |         |
| D313                | 8-719-073-01   | s DIODE MA111-(K8).S0          |         |
| D314                | 8-719-073-01   | s DIODE MA111-(K8).S0          |         |
| D315                | 8-719-073-01   | s DIODE MA111-(K8).S0          |         |
| D501                | 8-719-033-83   | s DIODE ERD07-15               |         |
| D502                | 8-719-048-23   | s DIODE UF5408                 |         |
| D503                | 8-719-908-03   | s DIODE GP08D                  |         |
| D504                | 8-719-908-03   | s DIODE GP08D                  |         |
| D505                | 8-719-036-94   | s DIODE RD5.6SB-T1             |         |
| D506                | 8-719-073-01   | s DIODE MA111-(K8).S0          |         |
| D509                | 8-719-028-72   | s DIODE RGP02-17EL-6433        |         |
| D551                | 8-719-908-03   | s DIODE GP08D                  |         |
| D552                | 8-719-036-94   | s DIODE RD5.6SB-T1             |         |
| D601                | Δ 8-719-510-53 | s DIODE D4SB60L                |         |
| D605                | 8-719-073-01   | s DIODE MA111-(K8).S0          |         |
| D606                | 8-719-073-01   | s DIODE MA111-(K8).S0          |         |
| D607                | 8-719-033-53   | s DIODE RD6.8SB2-T1            |         |
| D608                | 8-719-109-85   | s DIODE RD5.1ES-B2             |         |
| D609                | 8-719-510-02   | s DIODE D1NS4                  |         |
| D610                | 8-719-063-70   | s DIODE D1NL20U                |         |
| D611                | 8-719-063-70   | s DIODE D1NL20U                |         |
| D612                | 8-719-063-70   | s DIODE D1NL20U                |         |
| D613                | 8-719-311-31   | s DIODE RU-1P                  |         |
| D614                | 8-719-051-96   | s DIODE FMG-G2CS               |         |
| D615                | 8-719-312-10   | s DIODE RU4AM-T3               |         |
| D616                | 8-719-058-38   | s DIODE FMN-G12S               |         |
| D617                | 8-719-058-38   | s DIODE FMN-G12S               |         |
| D618                | 8-719-058-38   | s DIODE FMN-G12S               |         |
| D619                | 8-719-071-38   | s DIODE D5S6M                  |         |
| D621                | 8-719-110-41   | s DIODE RD15ES-B2              |         |

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| Ref. No.<br>or Q'ty | Part No.       | SP Description                     |
|---------------------|----------------|------------------------------------|
| D622                | 8-719-110-09   | s DIODE RD8.2ES-B3                 |
| D623                | 8-719-073-01   | s DIODE MA111-(K8).S0              |
| D625                | 8-719-033-53   | s DIODE RD6.8SB2-T1                |
| D626                | 8-719-068-00   | s DIODE ERC04-06SE                 |
| D627                | 8-719-068-00   | s DIODE ERC04-06SE                 |
| D628                | 8-719-063-70   | s DIODE D1NL20U                    |
| D656                | 8-719-046-66   | s LED SLR-56MC3F                   |
| F601                | Δ 1-576-231-12 | s FUSE (H.B.C) (4A/250V)           |
| F602                | Δ 1-576-231-12 | s FUSE (H.B.C) (4A/250V) (14L1MDE) |
| FB001               | 1-410-397-21   | s FERRITE BEAD INDUCTOR            |
| FB101               | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| FB102               | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| FB103               | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| FB104               | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| FB105               | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| FB601               | 1-412-911-11   | s INDUCTOR, FERRITE BEAD           |
| FB603               | 1-412-911-11   | s INDUCTOR, FERRITE BEAD           |
| FB605               | 1-412-911-11   | s INDUCTOR, FERRITE BEAD           |
| FH601               | 1-533-223-11   | s CLIP, FUSE                       |
| FH602               | 1-533-223-11   | s CLIP, FUSE                       |
| FH603               | 1-533-223-11   | s CLIP, FUSE (14L1MDE)             |
| FH604               | 1-533-223-11   | s CLIP, FUSE (14L1MDE)             |
| IC001               | 6-803-550-01   | s IC TDA9394H/N1/5/1179.518        |
| IC002               | 8-759-672-39   | s IC PST573IMT                     |
| IC003               | 8-759-575-72   | s IC M24C08-WMN6T                  |
| IC004               | 8-759-666-90   | s IC TDA9181T                      |
| IC551               | 8-759-339-59   | s IC TDA8177                       |
| IC552               | 8-759-145-58   | s IC UPC4558C                      |
| IC601               | 8-749-016-43   | s IC STR-F6653-LF1351              |
| IC602               | 8-759-700-07   | s IC NJM2903M                      |
| IC651               | 8-749-921-89   | s IC SE115N                        |
| IC652               | 8-759-450-47   | s IC BA05T                         |
| IC653               | 8-759-445-59   | s IC BA033T                        |
| IC654               | 8-759-450-50   | s IC BA08T                         |
| IC3501              | 6-700-688-01   | s IC AN5278                        |
| JR1                 | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| JR2                 | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| JR3                 | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| JR5                 | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| JR7                 | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| JR10                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| JR11                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| JR12                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| JR13                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| JR14                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| JR15                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| JR16                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| JR17                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| JR19                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| JR20                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| JR22                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| JR23                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| JR24                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| JR28                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| JR32                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)           |
| L002                | 1-412-533-21   | s MICRO INDUCTOR 47UH              |
| L003                | 1-412-533-21   | s MICRO INDUCTOR 47UH              |
| L005                | 1-412-533-21   | s MICRO INDUCTOR 47UH              |
| L006                | 1-412-541-41   | s MICRO INDUCTOR 220UH             |
| L007                | 1-412-537-31   | s INDUCTOR, MICRO 100UH            |

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| Ref. No.<br>or Q'ty | Part No.       | SP Description                    |
|---------------------|----------------|-----------------------------------|
| L501                | 1-406-976-11   | s COIL, CHOKE 68UH                |
| L502                | 1-412-527-11   | s MICRO INDUCTOR 15UH             |
| L503                | 1-412-553-11   | s INDUCTOR, MICRO 3.3MH           |
| L504                | 1-459-104-00   | s COIL, DUST CORE                 |
| L505                | 1-459-760-13   | s COIL, HORIZONTAL LINEARITY      |
| L506                | 1-406-979-11   | s COIL, CHOKE 220UH               |
| L507                | 1-406-977-21   | s COIL, CHOKE 100UH               |
| L510                | 1-407-365-00   | s CHOKE COIL, RF                  |
| L551                | 1-459-104-00   | s COIL, DUST CORE                 |
| L601                | Δ 1-419-653-11 | s COIL, CHOKE 56MMH               |
| L602                | 1-406-661-11   | s COIL CHOKE 22UH                 |
| L603                | 1-406-661-11   | s COIL CHOKE 22UH                 |
| L604                | 1-406-663-21   | s COIL CHOKE 47UH                 |
| L650                | 1-414-189-31   | s INDUCTOR 100UH                  |
| NL501               | 1-517-778-21   | s LAMP, NEON                      |
| PH601               | Δ 8-749-016-81 | s PHOTO COUPLER PC123Y22          |
| Q001                | 8-729-120-28   | s TRANSISTOR 2SC1623-L5L6         |
| Q002                | 8-729-026-49   | s TRANSISTOR 2SA1037AK-T146-R     |
| Q003                | 8-729-026-49   | s TRANSISTOR 2SA1037AK-T146-R     |
| Q005                | 8-729-027-43   | s TRANSISTOR DTC114EKA-T146       |
| Q102                | 8-729-120-28   | s TRANSISTOR 2SC1623-L5L6         |
| Q301                | 8-729-120-28   | s TRANSISTOR 2SC1623-L5L6         |
| Q314                | 1-801-806-11   | s TRANSISTOR DTC144EKA            |
| Q315                | 8-729-027-38   | s TRANSISTOR DTA144EKA-T146       |
| Q316                | 1-801-806-11   | s TRANSISTOR DTC144EKA            |
| Q317                | 8-729-120-28   | s TRANSISTOR 2SC1623-L5L6         |
| Q501                | 8-729-048-07   | s TRANSISTOR 2SD2578-CA           |
| Q502                | 8-729-140-50   | s TRANSISTOR 2SC3209LK            |
| Q551                | 8-729-313-42   | s TRANSISTOR 2SD1134              |
| Q602                | 8-729-120-28   | s TRANSISTOR 2SC1623-L5L6         |
| Q603                | 8-729-029-92   | s TRANSISTOR DTC143ESA            |
| Q604                | 8-729-141-89   | s TRANSISTOR 2SD1585-LK           |
| Q605                | 8-729-140-96   | s TRANSISTOR 2SD774-34            |
| Q606                | 8-729-200-17   | s TRANSISTOR 2SA1091-0            |
| Q607                | 8-729-026-49   | s TRANSISTOR 2SA1037AK-T146-R     |
| Q608                | 8-729-027-55   | s TRANSISTOR DTC143EKA-T146       |
| Q609                | 8-729-120-28   | s TRANSISTOR 2SC1623-L5L6         |
| Q610                | 8-729-120-28   | s TRANSISTOR 2SC1623-L5L6         |
| Q611                | 8-729-120-28   | s TRANSISTOR 2SC1623-L5L6         |
| Q3501               | 8-729-422-33   | s TRANSISTOR 2SD601A-Q-TX         |
| Q3503               | 8-729-120-28   | s TRANSISTOR 2SC1623-L5L6         |
| R001                | 1-216-809-11   | s RESISTOR, CHIP 100 1/10W 1608   |
| R002                | 1-216-809-11   | s RESISTOR, CHIP 100 1/10W 1608   |
| R003                | 1-216-809-11   | s RESISTOR, CHIP 100 1/10W 1608   |
| R004                | 1-216-827-11   | s RESISTOR, CHIP 3.3K 1/10W 1608  |
| R005                | 1-216-827-11   | s RESISTOR, CHIP 3.3K 1/10W 1608  |
| R006                | 1-219-570-11   | s RESISTOR, CHIP 10M 1/16W        |
| R007                | 1-216-809-11   | s RESISTOR, CHIP 100 1/10W 1608   |
| R008                | 1-216-809-11   | s RESISTOR, CHIP 100 1/10W 1608   |
| R009                | 1-216-809-11   | s RESISTOR, CHIP 100 1/10W 1608   |
| R010                | 1-216-809-11   | s RESISTOR, CHIP 100 1/10W 1608   |
| R011                | 1-216-809-11   | s RESISTOR, CHIP 100 1/10W 1608   |
| R012                | 1-216-821-11   | s RESISTOR, CHIP 1.0K 1/10W(1608) |
| R013                | 1-218-865-11   | s RESISTOR, CHIP 5.6K 1/10W(1608) |
| R014                | 1-219-570-11   | s RESISTOR, CHIP 10M 1/16W        |
| R015                | 1-216-861-11   | s RESISTOR, CHIP 2.2M 1/16W 1608  |

## (A BOARD (FOR 14 INCH))

| Ref. No.<br>or Q'ty | Part No.     | SP Description                    |
|---------------------|--------------|-----------------------------------|
| R016                | 1-216-857-11 | s RESISTOR,CHIP 1M 1/10W(1608)    |
| R017                | 1-218-899-11 | s RESISTOR,CHIP 150K 1/10W(1608)  |
| R018                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608)  |
| R019                | 1-216-838-11 | s RESISTOR,CHIP 27K 1/10W(1608)   |
| R020                | 1-216-813-11 | s RESISTOR,CHIP 220 1/10W 1608    |
| R021                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608    |
| R022                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608)  |
| R023                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608    |
| R024                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608)  |
| R025                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608    |
| R026                | 1-218-823-11 | s RESISTOR,CHIP 100 1/10W (1608)  |
| R027                | 1-216-840-11 | s RESISTOR,CHIP 39K 1/10W 1608    |
| R028                | 1-216-835-11 | s RESISTOR,CHIP 15K 1/10W         |
| R029                | 1-218-862-11 | s RESISTOR,CHIP 4.3K 1/10W(1608)  |
| R030                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608    |
| R031                | 1-216-841-11 | s RESISTOR,CHIP 47K 1/10W 1608    |
| R032                | 1-218-831-11 | s RESISTOR,CHIP 220 1/10W(1608)   |
| R033                | 1-218-871-11 | s RESISTOR,CHIP 10K 1/10W (1608)  |
| R034                | 1-218-875-11 | s RESISTOR,CHIP 15K 1/10W (1608)  |
| R035                | 1-218-859-11 | s RESISTOR,CHIP 3.3K 1/10W(1608)  |
| R036                | 1-218-867-11 | s RESISTOR,CHIP 6.8K 1/10W(1608)  |
| R037                | 1-216-864-11 | s CONDUCTOR,CHIP (1608)           |
| R038                | 1-218-851-11 | s RESISTOR,CHIP 1.5K 1/10W(1608)  |
| R039                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608)  |
| R040                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608    |
| R041                | 1-218-867-11 | s RESISTOR,CHIP 6.8K 1/10W(1608)  |
| R042                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608)  |
| R043                | 1-216-864-11 | s CONDUCTOR,CHIP (1608)           |
| R044                | 1-216-821-11 | s RESISTOR,CHIP 1.0K 1/10W(1608)  |
| R045                | 1-216-864-11 | s CONDUCTOR,CHIP (1608)           |
| R046                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608    |
| R047                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608)  |
| R048                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608)  |
| R049                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608    |
| R050                | 1-216-861-11 | s RESISTOR,CHIP 2.2M 1/16W 1608   |
| R051                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608    |
| R052                | 1-218-849-11 | s RESISTOR,CHIP 1.2K 1/10W (1608) |
| R053                | 1-218-849-11 | s RESISTOR,CHIP 1.2K 1/10W (1608) |
| R054                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608    |
| R055                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608)  |
| R056                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608)  |
| R057                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608)  |
| R058                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608    |
| R059                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608    |
| R060                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608    |
| R061                | 1-216-861-11 | s RESISTOR,CHIP 2.2M 1/16W 1608   |
| R062                | 1-218-839-11 | s RESISTOR,CHIP 470 1/10W (1608)  |
| R063                | 1-218-839-11 | s RESISTOR,CHIP 470 1/10W (1608)  |
| R064                | 1-218-839-11 | s RESISTOR,CHIP 470 1/10W (1608)  |
| R065                | 1-218-849-11 | s RESISTOR,CHIP 1.2K 1/10W (1608) |
| R066                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608)  |
| R067                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608    |
| R068                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608)  |
| R069                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608)  |
| R070                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608)  |
| R071                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608    |
| R072                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608    |
| R073                | 1-218-835-11 | s RESISTOR,CHIP 330 1/10W (1608)  |
| R074                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608    |

## (A BOARD (FOR 14 INCH))

| Ref. No.<br>or Q'ty | Part No.     | SP Description                   |
|---------------------|--------------|----------------------------------|
| R076                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R077                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608) |
| R078                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R079                | 1-216-837-11 | s RESISTOR,CHIP 22K 1/16W 1608   |
| R082                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R083                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R084                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R085                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R086                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R087                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R088                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R089                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R091                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R094                | 1-216-821-11 | s RESISTOR,CHIP 1.0K 1/10W(1608) |
| R096                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608) |
| R097                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R101                | 1-218-911-11 | s RESISTOR,CHIP 470K 1/10W(1608) |
| R107                | 1-218-895-11 | s RESISTOR,CHIP 100K 1/10W(1608) |
| R108                | 1-218-912-11 | s RESISTOR,CHIP 510K 1/10W(1608) |
| R110                | 1-218-905-11 | s RESISTOR,CHIP 270K 1/10W(1608) |
| R301                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R302                | 1-218-871-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R303                | 1-218-871-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R304                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R305                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R306                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R307                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R308                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R311                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R315                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R316                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R317                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R318                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608) |
| R325                | 1-214-913-00 | s RESISTOR,METAL FILM 100K 1/2W  |
| R326                | 1-214-888-00 | s RESISTOR,METAL FILM 10K 1/2W   |
| R393                | 1-249-393-11 | s RES,CARBON 10 1/4W             |
| R394                | 1-216-797-11 | s RESISTOR,CHIP 10 1/10W 1608    |
| R501                | 1-216-828-11 | s RESISTOR,CHIP 3.9K 1/10W 1608  |
| R502                | 1-216-832-11 | s RESISTOR,CHIP 8.2K 1/16W 1608  |
| R503                | 1-215-483-11 | s RESISTOR,METAL FILM 2.7K/3W    |
| R504                | 1-215-920-11 | s RESISTOR,METAL FILM 3.3K/3W    |
| R506                | 1-260-331-11 | s RESISTOR,CARBON 1.8K 1/2W      |
| R507                | 1-216-423-11 | s RESISTOR,METAL FILM 27/1W      |
| R508                | 1-215-862-11 | s RESISTOR,METAL 68 1W           |
| R509                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R512                | 1-218-881-11 | s RESISTOR,CHIP 27K 1/10W(1608)  |
| R513                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608) |
| R514                | 1-215-870-11 | s RESISTOR,METAL FILM 1.5K/1W    |
| R515                | 1-215-920-11 | s RESISTOR,METAL FILM 3.3K/3W    |
| R551                | 1-215-867-00 | s RESISTOR,METAL FILM 470/1W     |
| R552                | 1-215-880-00 | s RESISTOR,METAL OXIDE 10 2W     |
| R553                | 1-216-675-11 | s RESISTOR,CHIP 10K 1/10W(2012)  |
| R554                | 1-218-855-11 | s RESISTOR,CHIP 2.2K 1/10W(1608) |
| R555                | 1-215-886-11 | s RESISTOR,METAL OXIDE 100 2W    |
| R556                | 1-260-294-11 | s RESISTOR CARBON 1.5 1/2W       |
| R557                | 1-218-855-11 | s RESISTOR,CHIP 2.2K 1/10W(1608) |
| R558                | 1-216-675-11 | s RESISTOR,CHIP 10K 1/10W(2012)  |
| R559                | 1-216-835-11 | s RESISTOR,CHIP 15K 1/10W        |
| R560                | 1-216-849-11 | s RESISTOR,CHIP 220K 1/16W 1608  |

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| Ref. No.<br>or Q'ty | Part No.       | SP | Description                    |
|---------------------|----------------|----|--------------------------------|
| R561                | 1-249-377-11   | s  | RES,CARBON 0.47 1/4W           |
| R562                | 1-216-670-11   | s  | RESISTOR,CHIP 6.2K 1/10W(2012) |
| R563                | 1-216-675-11   | s  | RESISTOR,CHIP 10K 1/10W(2012)  |
| R564                | 1-216-827-11   | s  | RESISTOR,CHIP 3.3K 1/10W 1608  |
| R565                | 1-216-821-11   | s  | RESISTOR,CHIP 1.0K 1/10W(1608) |
| R569                | 1-216-857-11   | s  | RESISTOR,CHIP 1M 1/10W(1608)   |
| R570                | 1-216-422-11   | s  | RESISTOR,METAL FILM 18 1W      |
| R571                | 1-216-825-11   | s  | RESISTOR,CHIP 2.2K 1/10W 1608  |
| R572                | 1-216-833-11   | s  | RESISTOR,CHIP 10K 1/10W (1608) |
| R601                | Δ 1-219-759-11 | s  | RESISTOR (SURGE RESISTANT) 1M  |
| R602                | Δ 1-219-769-11 | s  | RESISTOR (SURGE) 3.3M/1/2W     |
| R603                | Δ 1-219-769-11 | s  | RESISTOR (SURGE) 3.3M/1/2W     |
| R604                | 1-216-845-11   | s  | RESISTOR,CHIP 100K 1/10W(1608) |
| R605                | 1-216-817-11   | s  | RESISTOR,CHIP 470 1/10W 1608   |
| R607                | 1-216-833-11   | s  | RESISTOR,CHIP 10K 1/10W (1608) |
| R608                | 1-216-809-11   | s  | RESISTOR,CHIP 100 1/10W 1608   |
| R609                | 1-218-861-11   | s  | RESISTOR,CHIP 3.9K 1/10W(1608) |
| R610                | 1-216-825-11   | s  | RESISTOR,CHIP 2.2K 1/10W 1608  |
| R611                | 1-218-875-11   | s  | RESISTOR,CHIP 15K 1/10W (1608) |
| R612                | 1-218-855-11   | s  | RESISTOR,CHIP 2.2K 1/10W(1608) |
| R613                | 1-216-825-11   | s  | RESISTOR,CHIP 2.2K 1/10W 1608  |
| R614                | 1-218-863-11   | s  | RESISTOR,CHIP 4.7K 1/10W(1608) |
| R615                | 1-245-478-21   | s  | ANTI SURGE RESISTOR 470K       |
| R616                | 1-245-478-21   | s  | ANTI SURGE RESISTOR 470K       |
| R617                | 1-219-134-11   | s  | RESISTOR,FUSE 0.1              |
| R620                | 1-202-933-61   | s  | RESISTOR, FUSE 0.1 1/2W        |
| R621                | 1-215-926-00   | s  | RESISTOR,METAL FILM 33K/3W     |
| R622                | 1-215-926-00   | s  | RESISTOR,METAL FILM 33K/3W     |
| R623                | 1-215-926-00   | s  | RESISTOR,METAL FILM 33K/3W     |
| R624                | 1-247-843-11   | s  | RESISTOR CARBON (SMALL) 3.3K   |
| R625                | 1-216-361-00   | s  | RESISTOR,METAL FILM 0.22/2W    |
| R626                | 1-216-363-00   | s  | RESISTOR,METAL FILM 0.33/2W    |
| R627                | 1-218-843-11   | s  | RESISTOR,CHIP 680 1/10W (1608) |
| R629                | 1-218-855-11   | s  | RESISTOR,CHIP 2.2K 1/10W(1608) |
| R630                | 1-249-396-11   | s  | RES,CARBON 18 1/4W             |
| R631                | 1-215-929-11   | s  | RESISTOR,METAL FILM 100K/3W    |
| R636                | 1-245-464-21   | s  | ANTI SURGE RESISTOR 120K       |
| R637                | 1-245-464-21   | s  | ANTI SURGE RESISTOR 120K       |
| R638                | 1-245-464-21   | s  | ANTI SURGE RESISTOR 120K       |
| R639                | 1-216-833-11   | s  | RESISTOR,CHIP 10K 1/10W (1608) |
| R640                | 1-218-885-11   | s  | RESISTOR,CHIP 39K 1/10W (1608) |
| R651                | 1-216-825-11   | s  | RESISTOR,CHIP 2.2K 1/10W 1608  |
| R652                | 1-216-821-11   | s  | RESISTOR,CHIP 1.0K 1/10W(1608) |
| R653                | 1-215-898-11   | s  | RESISTOR,METAL FILM 10K/2W     |
| R654                | 1-202-933-61   | s  | RESISTOR, FUSE 0.1 1/2W        |
| R656                | 1-249-381-11   | s  | RES,CARBON 1 (1/4W)            |
| R657                | 1-249-381-11   | s  | RES,CARBON 1 (1/4W)            |
| R658                | 1-249-409-11   | s  | RESISTOR,CARBON 220 1/4W SMALL |
| R659                | 1-249-413-11   | s  | RESISTOR,CARBON 470 1/4W SMALL |
| R660                | 1-212-857-00   | s  | RESISTOR,FUSE 10 1/4W          |
| R661                | 1-216-391-11   | s  | RESISTOR,METAL FILM 1.5 3W     |
| R662                | 1-218-849-11   | s  | RESISTOR,CHIP 1.2K 1/10W(1608) |
| R663                | 1-245-476-21   | s  | ANTI SURGE RESISTOR 390K       |
| R664                | 1-218-895-11   | s  | RESISTOR,CHIP 100K 1/10W(1608) |
| R665                | 1-216-835-11   | s  | RESISTOR,CHIP 15K 1/10W        |
| R666                | 1-218-871-11   | s  | RESISTOR,CHIP 10K 1/10W (1608) |
| R667                | 1-245-478-21   | s  | ANTI SURGE RESISTOR 470K       |
| R668                | 1-249-417-11   | s  | RESISTOR,CARBON 1K 1/4W(SMALL) |
| R1419               | 1-216-809-11   | s  | RESISTOR,CHIP 100 1/10W 1608   |

## (A BOARD (FOR 14 INCH))

| Ref. No.<br>or Q'ty | Part No.       | SP | Description                    |
|---------------------|----------------|----|--------------------------------|
| R1420               | 1-216-809-11   | s  | RESISTOR,CHIP 100 1/10W 1608   |
| R3501               | 1-216-829-11   | s  | RESISTOR,CHIP 4.7K 1/10W(1608) |
| R3502               | 1-216-821-11   | s  | RESISTOR,CHIP 1.0K 1/10W(1608) |
| R3503               | 1-216-833-11   | s  | RESISTOR,CHIP 10K 1/10W (1608) |
| R3505               | 1-216-851-11   | s  | RESISTOR,CHIP 330K 1/16W 1608  |
| R3506               | 1-218-866-11   | s  | RESISTOR,CHIP 6.2K 1/10W(1608) |
| R3507               | 1-216-834-11   | s  | RESISTOR,CHIP 12K 1/16W 1608   |
| R3508               | 1-216-829-11   | s  | RESISTOR,CHIP 4.7K 1/10W(1608) |
| R3509               | 1-216-835-11   | s  | RESISTOR,CHIP 15K 1/10W        |
| R3510               | 1-216-837-11   | s  | RESISTOR,CHIP 22K 1/16W 1608   |
| R3512               | 1-216-813-11   | s  | RESISTOR,CHIP 220 1/10W 1608   |
| R3513               | 1-216-833-11   | s  | RESISTOR,CHIP 10K 1/10W (1608) |
| R3514               | 1-216-821-11   | s  | RESISTOR,CHIP 1.0K 1/10W(1608) |
| RY603               | Δ 1-755-013-11 | s  | RELAY (12V)                    |
| S001                | 1-571-532-21   | s  | SWITCH,TACTILE                 |
| S002                | 1-571-532-21   | s  | SWITCH,TACTILE                 |
| S003                | 1-571-532-21   | s  | SWITCH,TACTILE                 |
| S004                | 1-571-532-21   | s  | SWITCH,TACTILE                 |
| S005                | 1-571-532-21   | s  | SWITCH,TACTILE                 |
| S006                | 1-571-532-21   | s  | SWITCH,TACTILE                 |
| S501                | 1-572-707-11   | s  | SWITCH,LEVER                   |
| S601                | Δ 1-571-433-21 | s  | SWITCH, PUSH (AC POWER)        |
| SG501               | 1-519-422-11   | s  | GAP,SPARK                      |
| T501                | Δ 1-453-446-11 | s  | NX-4525//M3A4                  |
| T502                | 1-437-090-31   | s  | TRANSFORMER,HDT                |
| T601                | Δ 1-443-029-11 | s  | CONVERTER TRANSFORMER (SRT)    |
| T603                | Δ 1-429-180-11 | s  | TRANSFORMER, LINE FILTER       |
| THP601              | Δ 1-808-059-31 | s  | THERMISTOR,POSITIVE            |
| VDR601              | Δ 1-803-830-31 | s  | VARISTOR (ERZV14D621)          |
| X001                | 1-578-774-11   | s  | VIBRATOR, CRYSTAL (12MHz)      |

## A BOARD (FOR 20 INCH)

| Ref. No.<br>or Q'ty | Part No.     | SP Description                     |
|---------------------|--------------|------------------------------------|
| 1pc                 | A-1302-229-A | s MOUNTED CIRCUIT BOARD, A         |
| 2pcs                | 2-371-561-00 | s BUSHING (P), INSULATING          |
| 1pc                 | 4-200-407-01 | s HOLDER, IC                       |
| 2pcs                | 4-201-023-01 | s SPACER, INSULATING               |
| 7pcs                | 4-382-854-11 | s SCREW, +PSW M3X10 (EP-FE/ZNBK/CM |
| C001                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B   |
| C003                | 1-164-227-11 | s CAPACITOR, CERAMIC 0.022MF/25V   |
| C004                | 1-162-918-11 | s CAPACITOR, CERAMIC 18PF/50V CH   |
| C005                | 1-162-918-11 | s CAPACITOR, CERAMIC 18PF/50V CH   |
| C006                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF    |
| C008                | 1-126-933-11 | s CAPACITOR, ELECT 100MF/16V       |
| C011                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF    |
| C012                | 1-164-227-11 | s CAPACITOR, CERAMIC 0.022MF/25V   |
| C013                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B   |
| C015                | 1-136-165-00 | s CAPACITOR, FILM 0.1MF/50V (PP)   |
| C016                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF    |
| C017                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF    |
| C018                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF    |
| C019                | 1-125-838-11 | s CAPACITOR, CERAMIC 2.2MF/6.3V    |
| C020                | 1-162-968-11 | s CAPACITOR, CERAMIC 4700PF/50V B  |
| C021                | 1-109-982-11 | s CAPACITOR, CHIP CERAMIC 1MF/10V  |
| C022                | 1-162-968-11 | s CAPACITOR, CERAMIC 4700PF/50V B  |
| C023                | 1-164-227-11 | s CAPACITOR, CERAMIC 0.022MF/25V   |
| C024                | 1-164-227-11 | s CAPACITOR, CERAMIC 0.022MF/25V   |
| C025                | 1-127-715-11 | s CAPACITOR, CERAMIC 0.22MF B1608  |
| C026                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF    |
| C027                | 1-162-962-11 | s CAPACITOR, CERAMIC 470PF/50V (B) |
| C028                | 1-162-964-11 | s CAPACITOR, CERAMIC 1000PF/50V B  |
| C029                | 1-126-935-11 | s CAPACITOR, ELECT 470MF/16V       |
| C030                | 1-126-926-11 | s CAPACITOR, ELECT 1000MF/10V      |
| C031                | 1-126-963-11 | s CAPACITOR, ELECT 4.7MF/50V       |
| C032                | 1-126-935-11 | s CAPACITOR, ELECT 470MF/16V       |
| C033                | 1-126-933-11 | s CAPACITOR, ELECT 100MF/16V       |
| C034                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B   |
| C035                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B   |
| C036                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF    |
| C037                | 1-126-935-11 | s CAPACITOR, ELECT 470MF/16V       |
| C038                | 1-126-933-11 | s CAPACITOR, ELECT 100MF/16V       |
| C040                | 1-126-933-11 | s CAPACITOR, ELECT 100MF/16V       |
| C041                | 1-126-933-11 | s CAPACITOR, ELECT 100MF/16V       |
| C043                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B   |
| C044                | 1-126-961-11 | s CAPACITOR, ELECT 2.2MF/50V       |
| C045                | 1-162-960-11 | s CAPACITOR, CERAMIC 220PF/50V (B) |
| C046                | 1-162-964-11 | s CAPACITOR, CERAMIC 1000PF/50V B  |
| C047                | 1-126-963-11 | s CAPACITOR, ELECT 4.7MF/50V       |
| C048                | 1-125-891-11 | s CAPACITOR CERAMIC 0.47MF/10V     |
| C049                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF    |
| C050                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF    |
| C051                | 1-107-823-11 | s CAPACITOR, CERAMIC 0.47MF/16V    |
| C052                | 1-107-823-11 | s CAPACITOR, CERAMIC 0.47MF/16V    |
| C053                | 1-125-891-11 | s CAPACITOR CERAMIC 0.47MF/10V     |
| C054                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF    |
| C055                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B   |
| C056                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B   |
| C057                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B   |
| C058                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B   |
| C059                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B   |
| C060                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B   |
| C061                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B   |

## (A BOARD (FOR 20 INCH))

| Ref. No.<br>or Q'ty | Part No.       | SP Description                         |
|---------------------|----------------|----------------------------------------|
| C062                | 1-164-245-11   | s CAPACITOR, CERAMIC 0.015MF/25V       |
| C063                | 1-107-826-11   | s CAPACITOR, CHIP CERAMIC 0.1MF        |
| C064                | 1-162-970-11   | s CAPACITOR CERAMIC 0.01MF/25V B       |
| C065                | 1-162-970-11   | s CAPACITOR CERAMIC 0.01MF/25V B       |
| C066                | 1-162-970-11   | s CAPACITOR CERAMIC 0.01MF/25V B       |
| C067                | 1-162-970-11   | s CAPACITOR CERAMIC 0.01MF/25V B       |
| C068                | 1-162-970-11   | s CAPACITOR CERAMIC 0.01MF/25V B       |
| C101                | 1-162-970-11   | s CAPACITOR CERAMIC 0.01MF/25V B       |
| C102                | 1-107-635-11   | s CAPACITOR, ELECT 4.7MF/160V          |
| C301                | 1-126-963-11   | s CAPACITOR, ELECT 4.7MF/50V           |
| C302                | 1-162-967-11   | s CAPACITOR, CERAMIC 3300PF/50V B      |
| C312                | 1-126-964-11   | s CAPACITOR, ELECT 10MF/50V            |
| C333                | 1-107-826-11   | s CAPACITOR, CHIP CERAMIC 0.1MF        |
| C334                | 1-107-826-11   | s CAPACITOR, CHIP CERAMIC 0.1MF        |
| C341                | 1-161-830-00   | s CAPACITOR, CERAMIC; 4700PF/500V      |
| C376                | 1-162-927-11   | s CAPACITOR, CERAMIC 100PF/50V CH      |
| C377                | 1-162-927-11   | s CAPACITOR, CERAMIC 100PF/50V CH      |
| C378                | 1-162-970-11   | s CAPACITOR CERAMIC 0.01MF/25V B       |
| C379                | 1-162-970-11   | s CAPACITOR CERAMIC 0.01MF/25V B       |
| C380                | 1-162-927-11   | s CAPACITOR, CERAMIC 100PF/50V CH      |
| C385                | 1-162-964-11   | s CAPACITOR, CERAMIC 1000PF/50V B      |
| C386                | 1-162-964-11   | s CAPACITOR, CERAMIC 1000PF/50V B      |
| C387                | 1-126-965-11   | s CAPACITOR, ELECT 22MF/50V            |
| C388                | 1-165-176-11   | s CAPACITOR, CERAMIC 47000PF/16V       |
| C389                | 1-162-927-11   | s CAPACITOR, CERAMIC 100PF/50V CH      |
| C500                | 1-165-441-81   | s CAPACITOR, ELECT 33MF/160V           |
| C501                | 1-117-841-31   | s CAPACITOR, METALIZED PP FILM 11000PF |
| C502                | 1-130-336-11   | s CAPACITOR FILM 0.0068MF/630V         |
| C503                | 1-162-116-00   | s CAPACITOR, CERAMIC 680PF/2KVDC       |
| C504                | 1-162-116-00   | s CAPACITOR, CERAMIC 680PF/2KVDC       |
| C505                | 1-137-350-11   | s CAPACITOR FILM 0.015MF/100V          |
| C507                | 1-117-674-11   | s CAP, PP FILM (S) 1.8MF/200V          |
| C508                | 1-102-228-00   | s CAPACITOR, CERAMIC; 470PF/500V       |
| C509                | 1-107-943-11   | s CAPACITOR, ELECT 10MF/160V           |
| C510                | 1-107-846-11   | s CAPACITOR FILM 0.10MF/400V (S)       |
| C511                | 1-106-371-00   | s CAPACITOR FILM 0.015MF/200V          |
| C512                | 1-102-228-00   | s CAPACITOR, CERAMIC; 470PF/500V       |
| C514                | 1-107-901-11   | s CAPACITOR, ELECT 0.47MF/50V (105     |
| C517                | 1-130-336-11   | s CAPACITOR FILM 6800PF/630V           |
| C518                | 1-137-479-11   | s CAPASITOR FILM 1MF/400V              |
| C519                | 1-137-350-11   | s CAPACITOR FILM 0.015MF/100V          |
| C521                | 1-126-964-11   | s CAPACITOR, ELECT 10MF/50V            |
| C522                | 1-162-965-11   | s CAPACITOR, CERAMIC 1500PF/50V B      |
| C523                | 1-115-350-51   | s CAPACITOR, CERAMIC 4700PF F          |
| C551                | 1-126-968-11   | s CAPACITOR, ELECT 100MF/50V           |
| C552                | 1-137-401-11   | s CAPACITOR, FILM 0.22MF/100V          |
| C553                | 1-104-709-11   | s CAPACITOR, ELECT 4.7MF/160V          |
| C554                | 1-162-964-11   | s CAPACITOR, CERAMIC 1000PF/50V B      |
| C555                | 1-126-967-11   | s CAPACITOR, ELECT 47MF/50V            |
| C556                | 1-126-965-11   | s CAPACITOR, ELECT 22MF/50V            |
| C557                | 1-162-964-11   | s CAPACITOR, CERAMIC 1000PF/50V B      |
| C559                | 1-115-339-11   | s CAPACITOR, CERAMIC 0.1MF/50V         |
| C601                | Δ 1-165-437-11 | s CAPACITOR, PP FILM 0.22MF            |
| C602                | Δ 1-165-437-11 | s CAPACITOR, PP FILM 0.22MF            |
| C603                | Δ 1-113-907-51 | s CAPACITOR, CERAMIC 2200PF/250V       |
| C604                | 1-164-156-11   | s CAPACITOR, CERAMIC 0.1MF/25V F       |
| C605                | Δ 1-113-907-51 | s CAPACITOR, CERAMIC 2200PF/250V       |
| C606                | 1-126-947-11   | s CAPACITOR, ELECT 47MF/35V            |
| C607                | Δ 1-165-437-11 | s CAPACITOR, PP FILM 0.22MF            |

(A BOARD (FOR 20 INCH))

| Ref. No.<br>or Q'ty | Part No.       | SP | Description                     |
|---------------------|----------------|----|---------------------------------|
| C608                | 1-113-907-51   | s  | CAPACITOR, CERAMIC 2200PF/250V  |
| C609                | 1-113-907-51   | s  | CAPACITOR, CERAMIC 2200PF/250V  |
| C610                | 1-113-907-51   | s  | CAPACITOR, CERAMIC 2200PF/250V  |
| C611                | 1-113-907-51   | s  | CAPACITOR, CERAMIC 2200PF/250V  |
| C612                | Δ 1-117-753-11 | s  | CAPACITOR ELECT 470MF/450V      |
| C614                | 1-104-574-11   | s  | CAPACITOR CERAMIC 4700PF/2KV    |
| C616                | 1-126-947-11   | s  | CAPACITOR, ELECT 47MF/35V       |
| C617                | 1-107-826-11   | s  | CAPACITOR,CHIP CERAMIC 0.1MF    |
| C618                | 1-117-626-11   | s  | CAPACITOR FILM 2000PF/1600DC    |
| C619                | 1-107-444-11   | s  | CAPACITOR, CERAMIC 100PF/2KVDC  |
| C620                | 1-104-665-11   | s  | CAPACITOR, ELECT 100MF/25V      |
| C621                | 1-100-657-91   | s  | CAPACITOR CERAMIC 470PF/2KV     |
| C622                | 1-162-962-11   | s  | CAPACITOR, CERAMIC 470PF/50V(B) |
| C623                | 1-130-471-00   | s  | CAPACITOR FILM 0.001MF/50V PET  |
| C624                | 1-165-176-11   | s  | CAPACITOR, CERAMIC 47000PF/16V  |
| C650                | Δ 1-113-903-11 | s  | CAPACITOR, CERAMIC 0.001MF/250V |
| C651                | 1-104-999-11   | s  | CAPACITOR FILM 0.1MF/200V PETP  |
| C652                | 1-107-655-11   | s  | CAPASITOR ERECT 47MF/250V       |
| C653                | 1-125-494-11   | s  | CAPACITOR, ELECT 560MF/160V     |
| C655                | 1-107-648-91   | s  | CAPACITOR ELECT 100MF/200V      |
| C656                | 1-126-943-11   | s  | CAPACITOR, ELECT 2200MF/25V     |
| C657                | 1-126-943-11   | s  | CAPACITOR, ELECT 2200MF/25V     |
| C658                | 1-126-768-11   | s  | CAPACITOR, ELECT 2200MF/16V     |
| C659                | 1-111-066-11   | s  | CAPACITOR, ELECT 820MF/25V 105  |
| C660                | 1-126-942-61   | s  | CAPACITOR, ELECT 1000MF/25V     |
| C661                | 1-104-665-11   | s  | CAPACITOR, ELECT 100MF/25V      |
| C662                | 1-107-914-11   | s  | CAPACITOR, ELECT 1000MF/50V     |
| C663                | 1-126-935-11   | s  | CAPACITOR, ELECT 470MF/16V      |
| C664                | 1-107-826-11   | s  | CAPACITOR, CHIP CERAMIC 0.1MF   |
| C665                | 1-107-826-11   | s  | CAPACITOR, CHIP CERAMIC 0.1MF   |
| C666                | 1-126-935-11   | s  | CAPACITOR, ELECT 470MF/16V      |
| C667                | 1-107-826-11   | s  | CAPACITOR, CHIP CERAMIC 0.1MF   |
| C668                | 1-107-826-11   | s  | CAPACITOR, CHIP CERAMIC 0.1MF   |
| C669                | 1-126-964-11   | s  | CAPACITOR, ELECT 10MF/50V       |
| C670                | 1-126-965-11   | s  | CAPACITOR, ELECT 22MF/50V       |
| C671                | 1-128-528-11   | s  | CAPACITOR, ELECT 470MF/25V      |
| C672                | 1-126-935-11   | s  | CAPACITOR, ELECT 470MF/16V      |
| C1453               | 1-162-117-00   | s  | CAPACITOR, CERAMIC 100PF/500V B |
| C1461               | 1-164-230-11   | s  | CAPACITOR, CERAMIC 220PF/50V    |
| C1462               | 1-162-927-11   | s  | CAPACITOR, CERAMIC 100PF/50V CH |
| C1463               | 1-162-927-11   | s  | CAPACITOR, CERAMIC 100PF/50V CH |
| C1464               | 1-115-339-11   | s  | CAPACITOR, CERAMIC 0.1MF/50V    |
| C1465               | 1-115-339-11   | s  | CAPACITOR, CERAMIC 0.1MF/50V    |
| C1466               | 1-115-339-11   | s  | CAPACITOR, CERAMIC 0.1MF/50V    |
| C1467               | 1-163-021-91   | s  | CAPACITOR, CERAMIC 0.01MF/50V   |
| C1468               | 1-162-117-00   | s  | CAPACITOR, CERAMIC 100PF/500V B |
| C1471               | 1-162-964-11   | s  | CAPACITOR, CERAMIC 1000PF/50V B |
| C1481               | 1-162-964-11   | s  | CAPACITOR, CERAMIC 1000PF/50V B |
| C1486               | 1-162-927-11   | s  | CAPACITOR, CERAMIC 100PF/50V CH |
| C1488               | 1-126-964-11   | s  | CAPACITOR, ELECT 10MF/50V       |
| C3501               | 1-107-714-11   | s  | CAPACITOR, ELECT 10MF/50V(BP)   |
| C3502               | 1-107-905-11   | s  | CAPACITOR, ELECT 4.7MF/50V      |
| C3503               | 1-126-963-11   | s  | CAPACITOR, ELECT 4.7MF/50V      |
| C3504               | 1-107-905-11   | s  | CAPACITOR, ELECT 4.7MF/50V      |
| C3505               | 1-162-968-11   | s  | CAPACITOR, CERAMIC 4700PF/50V B |
| C3506               | 1-126-964-11   | s  | CAPACITOR, ELECT 10MF/50V       |
| C3507               | 1-165-176-11   | s  | CAPACITOR, CERAMIC 47000PF/16V  |
| C3510               | 1-104-665-11   | s  | CAPACITOR, ELECT 100MF/25V      |
| C3511               | 1-126-964-11   | s  | CAPACITOR, ELECT 10MF/50V       |

(A BOARD (FOR 20 INCH))

| Ref. No.<br>or Q'ty | Part No.       | SP | Description                   |
|---------------------|----------------|----|-------------------------------|
| CLP101              | 4-042-408-01   | o  | PIN, COATING LEAD             |
| CN001               | 1-564-508-11   | o  | PLUG, CONNECTOR (5P)          |
| CN002               | 1-564-511-11   | o  | PLUG, CONNECTOR (8P)          |
| CN003               | 1-564-515-11   | o  | PLUG, CONNECTOR (12P)         |
| CN004               | 1-564-510-11   | o  | PLUG, CONNECTOR (7P)          |
| CN501               | 1-580-798-11   | o  | CONNECTOR PIN (DY) 6P         |
| CN502               | 1-691-096-11   | o  | PIN, CONNECTOR (PC BOARD) 8P  |
| CN503               | 1-695-915-11   | s  | TAB (CONTACT)                 |
| CN601               | Δ 1-580-843-11 | o  | PIN, CONNECTOR (POWER)        |
| CN602               | Δ 1-508-765-23 | o  | PIN, CONNECTOR (5MM PITCH) 3P |
| CN3502              | 1-564-506-11   | o  | PLUG, CONNECTOR (3P)          |
| D004                | 8-719-036-94   | s  | DIODE RD5.6SB-T1              |
| D006                | 8-719-083-58   | s  | DIODE UDZSTE-173.9B           |
| D009                | 6-500-028-01   | s  | DIODE MM3Z9V1ST1              |
| D010                | 8-719-036-94   | s  | DIODE RD5.6SB-T1              |
| D011                | 8-719-036-94   | s  | DIODE RD5.6SB-T1              |
| D012                | 6-500-028-01   | s  | DIODE MM3Z9V1ST1              |
| D014                | 8-719-036-94   | s  | DIODE RD5.6SB-T1              |
| D017                | 8-719-991-33   | s  | DIODE 1SS133T-77              |
| D018                | 8-719-073-01   | s  | DIODE MA111-(K8).SO           |
| D019                | 8-719-073-01   | s  | DIODE MA111-(K8).SO           |
| D020                | 8-719-073-01   | s  | DIODE MA111-(K8).SO           |
| D021                | 8-719-073-01   | s  | DIODE MA111-(K8).SO           |
| D022                | 8-719-073-01   | s  | DIODE MA111-(K8).SO           |
| D023                | 8-719-073-01   | s  | DIODE MA111-(K8).SO           |
| D102                | 8-719-037-16   | s  | DIODE RD10SB2-T1              |
| D103                | 8-719-302-43   | s  | DIODE EL1Z (RECTI)            |
| D301                | 8-719-110-49   | s  | DIODE RD18ES-B2               |
| D302                | 8-719-302-43   | s  | DIODE EL1Z (RECTI)            |
| D312                | 8-719-073-01   | s  | DIODE MA111-(K8).SO           |
| D313                | 8-719-073-01   | s  | DIODE MA111-(K8).SO           |
| D314                | 8-719-073-01   | s  | DIODE MA111-(K8).SO           |
| D315                | 8-719-073-01   | s  | DIODE MA111-(K8).SO           |
| D501                | 8-719-033-83   | s  | DIODE ERD07-15                |
| D502                | 8-719-048-23   | s  | DIODE UF5408                  |
| D503                | 8-719-908-03   | s  | DIODE GP08D                   |
| D504                | 8-719-908-03   | s  | DIODE GP08D                   |
| D505                | 8-719-036-94   | s  | DIODE RD5.6SB-T1              |
| D506                | 8-719-073-01   | s  | DIODE MA111-(K8).SO           |
| D509                | 8-719-028-72   | s  | DIODE RGP02-17EL-6433         |
| D551                | 8-719-908-03   | s  | DIODE GP08D                   |
| D552                | 8-719-036-94   | s  | DIODE RD5.6SB-T1              |
| D601                | Δ 8-719-510-53 | s  | DIODE D4SB60L                 |
| D605                | 8-719-073-01   | s  | DIODE MA111-(K8).SO           |
| D606                | 8-719-073-01   | s  | DIODE MA111-(K8).SO           |
| D607                | 8-719-033-53   | s  | DIODE RD6.8SB2-T1             |
| D608                | 8-719-109-85   | s  | DIODE RD5.1ES-B2              |
| D609                | 8-719-510-02   | s  | DIODE D1NS4                   |
| D610                | 8-719-063-70   | s  | DIODE D1NL20U                 |
| D611                | 8-719-063-70   | s  | DIODE D1NL20U                 |
| D612                | 8-719-063-70   | s  | DIODE D1NL20U                 |
| D613                | 8-719-311-31   | s  | DIODE RU-1P                   |
| D614                | 8-719-051-96   | s  | DIODE FMG-G2CS                |
| D615                | 8-719-312-10   | s  | DIODE RU4AM-T3                |
| D616                | 8-719-058-38   | s  | DIODE FMN-G12S                |
| D617                | 8-719-058-38   | s  | DIODE FMN-G12S                |
| D618                | 8-719-058-38   | s  | DIODE FMN-G12S                |
| D619                | 8-719-071-38   | s  | DIODE D5S6M                   |

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| Ref. No.<br>or Q'ty | Part No.       | SP Description              |
|---------------------|----------------|-----------------------------|
| D621                | 8-719-110-41   | s DIODE RD15ES-B2           |
| D622                | 8-719-110-09   | s DIODE RD8.2ES-B3          |
| D623                | 8-719-073-01   | s DIODE MA111-(K8).S0       |
| D625                | 8-719-033-53   | s DIODE RD6.8SB2-T1         |
| D626                | 8-719-068-00   | s DIODE ERC04-06SE          |
| D627                | 8-719-068-00   | s DIODE ERC04-06SE          |
| D628                | 8-719-063-70   | s DIODE DINL20U             |
| D656                | 8-719-046-66   | s LED SLR-56MC3F            |
| F601                | ▲ 1-576-231-11 | s FUSE(H.B.C) (4A/250V)     |
| FB001               | 1-410-397-21   | s FERRITE BEAD INDUCTOR     |
| FB101               | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| FB102               | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| FB103               | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| FB104               | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| FB105               | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| FB601               | 1-412-911-11   | s INDUCTOR,FERRITE BEAD     |
| FB603               | 1-412-911-11   | s INDUCTOR,FERRITE BEAD     |
| FB605               | 1-412-911-11   | s INDUCTOR,FERRITE BEAD     |
| FH601               | 1-533-223-11   | s CLIP,FUSE                 |
| FH602               | 1-533-223-11   | s CLIP,FUSE                 |
| IC001               | 6-803-550-01   | s IC TDA9394H/N1/5/1179.518 |
| IC002               | 8-759-672-39   | s IC PST573IMT              |
| IC003               | 8-759-575-72   | s IC M24C08-WMN6T           |
| IC004               | 8-759-666-90   | s IC TDA9181T               |
| IC551               | 8-759-339-59   | s IC TDA8177                |
| IC552               | 8-759-145-58   | s IC UPC4558C               |
| IC601               | 8-749-016-43   | s IC STR-F6653-LF1351       |
| IC602               | 8-759-700-07   | s IC NJM2903M               |
| IC651               | 8-749-921-89   | s IC SE115N (HYBRID)        |
| IC652               | 8-759-450-47   | s IC BA05T                  |
| IC653               | 8-759-445-59   | s IC BA033T                 |
| IC654               | 8-759-450-50   | s IC BA08T                  |
| IC3501              | 6-700-688-01   | s IC AN5278                 |
| JR1                 | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| JR2                 | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| JR3                 | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| JR5                 | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| JR7                 | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| JR10                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| JR11                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| JR12                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| JR13                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| JR14                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| JR15                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| JR16                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| JR17                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| JR19                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| JR20                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| JR22                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| JR23                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| JR24                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| JR28                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| JR32                | 1-216-295-91   | s CONDUCTOR, CHIP (2012)    |
| L002                | 1-412-533-21   | s MICRO INDUCTOR 47UH       |
| L003                | 1-412-533-21   | s MICRO INDUCTOR 47UH       |
| L005                | 1-412-533-21   | s MICRO INDUCTOR 47UH       |
| L006                | 1-412-541-41   | s MICRO INDUCTOR 220UH      |
| L007                | 1-412-537-31   | s INDUCTOR,MICRO 100UH      |

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|---------------------|----------------|----------------------------------|
| L501                | 1-406-976-11   | s COIL, CHOKE 68UH               |
| L502                | 1-412-527-11   | s MICRO INDUCTOR 15UH            |
| L503                | 1-412-553-11   | s INDUCTOR,MICRO 3.3MH           |
| L504                | 1-459-104-00   | s COIL,DUST CORE                 |
| L505                | 1-459-769-13   | s COIL,HORIZONTAL LINEALITY      |
| L506                | 1-406-976-11   | s COIL,CHOKE 68UH                |
| L507                | 1-406-976-11   | s COIL,CHOKE 68UH                |
| L510                | 1-407-365-00   | s CHOKE COIL,RF                  |
| L551                | 1-459-104-00   | s COIL,DUST CORE                 |
| L601                | ▲ 1-419-653-11 | s COIL, CHOKE 56MMH              |
| L602                | 1-406-661-11   | s COIL CHOKE 22UH                |
| L603                | 1-406-661-11   | s COIL CHOKE 22UH                |
| L604                | 1-406-663-21   | s COIL CHOKE 47UH                |
| L650                | 1-414-189-31   | s INDUCTOR 100UH                 |
| NL501               | 1-517-778-21   | s LAMP, NEON                     |
| PH601               | ▲ 8-749-016-81 | s PHOTO COUPLER PC123Y22         |
| Q001                | 8-729-120-28   | s TRANSISTOR 2SC1623-L5L6        |
| Q002                | 8-729-026-49   | s TRANSISTOR 2SA1037AK-T146-R    |
| Q003                | 8-729-026-49   | s TRANSISTOR 2SA1037AK-T146-R    |
| Q005                | 8-729-027-43   | s TRANSISTOR DTC114EKA-T146      |
| Q102                | 8-729-120-28   | s TRANSISTOR 2SC1623-L5L6        |
| Q301                | 8-729-120-28   | s TRANSISTOR 2SC1623-L5L6        |
| Q314                | 1-801-806-11   | s TRANSISTOR DTC144EKA           |
| Q315                | 8-729-027-38   | s TRANSISTOR DTA144EKA-T146      |
| Q316                | 1-801-806-11   | s TRANSISTOR DTC144EKA           |
| Q317                | 8-729-120-28   | s TRANSISTOR 2SC1623-L5L6        |
| Q501                | 8-729-048-07   | s TRANSISTOR 2SD2578-CA          |
| Q502                | 8-729-140-50   | s TRANSISTOR 2SC3209LK           |
| Q551                | 8-729-313-42   | s TRANSISTOR 2SD1134             |
| Q602                | 8-729-120-28   | s TRANSISTOR 2SC1623-L5L6        |
| Q603                | 8-729-029-92   | s TRANSISTOR DTC143ESA           |
| Q604                | 8-729-141-89   | s TRANSISTOR 2SD1585-LK          |
| Q605                | 8-729-140-96   | s TRANSISTOR 2SD774-34           |
| Q606                | 8-729-200-17   | s TRANSISTOR 2SA1091-0           |
| Q607                | 8-729-026-49   | s TRANSISTOR 2SA1037AK-T146-R    |
| Q608                | 8-729-027-55   | s TRANSISTOR DTC143EKA-T146      |
| Q609                | 8-729-120-28   | s TRANSISTOR 2SC1623-L5L6        |
| Q610                | 8-729-120-28   | s TRANSISTOR 2SC1623-L5L6        |
| Q611                | 8-729-120-28   | s TRANSISTOR 2SC1623-L5L6        |
| Q3501               | 8-729-422-33   | s TRANSISTOR 2SD601A-Q-TX        |
| Q3503               | 8-729-120-28   | s TRANSISTOR 2SC1623-L5L6        |
| R001                | 1-216-809-11   | s RESISTOR,CHIP 100 1/10W 1608   |
| R002                | 1-216-809-11   | s RESISTOR,CHIP 100 1/10W 1608   |
| R003                | 1-216-809-11   | s RESISTOR,CHIP 100 1/10W 1608   |
| R004                | 1-216-827-11   | s RESISTOR, CHIP 3.3K 1/10W 1608 |
| R005                | 1-216-827-11   | s RESISTOR, CHIP 3.3K 1/10W 1608 |
| R006                | 1-219-570-11   | s RESISTOR,CHIP 10M 1/16W        |
| R007                | 1-216-809-11   | s RESISTOR,CHIP 100 1/10W 1608   |
| R008                | 1-216-809-11   | s RESISTOR,CHIP 100 1/10W 1608   |
| R009                | 1-216-809-11   | s RESISTOR,CHIP 100 1/10W 1608   |
| R010                | 1-216-809-11   | s RESISTOR,CHIP 100 1/10W 1608   |
| R011                | 1-216-809-11   | s RESISTOR,CHIP 100 1/10W 1608   |
| R012                | 1-216-821-11   | s RESISTOR,CHIP 1.0K 1/10W(1608) |
| R014                | 1-219-570-11   | s RESISTOR,CHIP 10M 1/16W        |
| R015                | 1-216-861-11   | s RESISTOR,CHIP 2.2M 1/16W 1608  |
| R016                | 1-216-857-11   | s RESISTOR,CHIP 1M 1/10W(1608)   |
| R017                | 1-218-899-11   | s RESISTOR,CHIP 150K 1/10W(1608) |

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| Ref. No.<br>or Q'ty | Part No.     | SP Description                   |
|---------------------|--------------|----------------------------------|
| R018                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608) |
| R019                | 1-216-838-11 | s RESISTOR CHIP 27K 1/10W(1608)  |
| R020                | 1-216-813-11 | s RESISTOR, CHIP 220 1/10W 1608  |
| R021                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R022                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608) |
| R023                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R024                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608) |
| R025                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R026                | 1-218-823-11 | s RESISTOR,CHIP 100 1/10W (1608) |
| R027                | 1-216-840-11 | s RESISTOR,CHIP 39K 1/10W 1608   |
| R028                | 1-216-835-11 | s RESISTOR,CHIP 15K 1/10W        |
| R029                | 1-218-862-11 | s RESISTOR,CHIP 4.3K 1/10W(1608) |
| R030                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R031                | 1-216-841-11 | s RESISTOR, CHIP 47K 1/10W 1608  |
| R032                | 1-218-831-11 | s RESISTOR, CHIP 220 1/10W(1608) |
| R033                | 1-218-871-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R034                | 1-218-875-11 | s RESISTOR,CHIP 15K 1/10W (1608) |
| R035                | 1-218-859-11 | s RESISTOR,CHIP 3.3K 1/10W(1608) |
| R036                | 1-218-867-11 | s RESISTOR,CHIP 6.8K 1/10W(1608) |
| R037                | 1-216-864-11 | s CONDUCTOR, CHIP (1608)         |
| R038                | 1-218-851-11 | s RESISTOR,CHIP 1.5K 1/10W(1608) |
| R039                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R040                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R041                | 1-218-867-11 | s RESISTOR,CHIP 6.8K 1/10W(1608) |
| R042                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R043                | 1-216-864-11 | s CONDUCTOR, CHIP (1608)         |
| R044                | 1-216-821-11 | s RESISTOR,CHIP 1.0K 1/10W(1608) |
| R045                | 1-216-864-11 | s CONDUCTOR, CHIP (1608)         |
| R046                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R047                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608) |
| R048                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R049                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R050                | 1-216-861-11 | s RESISTOR,CHIP 2.2M 1/16W 1608  |
| R051                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R052                | 1-218-851-11 | s RESISTOR,CHIP 1.5K 1/10W(1608) |
| R053                | 1-218-851-11 | s RESISTOR,CHIP 1.5K 1/10W(1608) |
| R054                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R055                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608) |
| R056                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608) |
| R057                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R058                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R059                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R060                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R061                | 1-216-861-11 | s RESISTOR,CHIP 2.2M 1/16W 1608  |
| R062                | 1-218-839-11 | s RESISTOR,CHIP 470 1/10W (1608) |
| R063                | 1-218-839-11 | s RESISTOR,CHIP 470 1/10W (1608) |
| R064                | 1-218-839-11 | s RESISTOR,CHIP 470 1/10W (1608) |
| R065                | 1-218-851-11 | s RESISTOR,CHIP 1.5K 1/10W(1608) |
| R066                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608) |
| R067                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R068                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R069                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R070                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R071                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R072                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R073                | 1-218-835-11 | s RESISTOR,CHIP 330 1/10W (1608) |
| R074                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R076                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R077                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608) |

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|---------------------|--------------|----------------------------------|
| R078                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R079                | 1-216-837-11 | s RESISTOR,CHIP 22K 1/16W 1608   |
| R082                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R083                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R084                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R085                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R086                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R087                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R088                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R089                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R091                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R094                | 1-216-821-11 | s RESISTOR,CHIP 1.0K 1/10W(1608) |
| R096                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608) |
| R097                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R101                | 1-218-907-11 | s RESISTOR,CHIP 330K 1/10W(1608) |
| R107                | 1-218-895-11 | s RESISTOR,CHIP 100K 1/10W(1608) |
| R108                | 1-218-908-11 | s RESISTOR,CHIP 360K 1/10W(1608) |
| R110                | 1-218-905-11 | s RESISTOR,CHIP 270K 1/10W(1608) |
| R301                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R302                | 1-218-871-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R303                | 1-218-871-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R304                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R305                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R306                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R307                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R308                | 1-216-809-11 | s RESISTOR,CHIP 100 1/10W 1608   |
| R311                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R315                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R316                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R317                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R318                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608) |
| R325                | 1-214-921-81 | s RESISTOR,METAL FILM 220K 1/2W  |
| R326                | 1-214-882-81 | s RESISTOR,METAL FILM 5.6K 1/2W  |
| R393                | 1-249-393-11 | s RES,CARBON 10 1/4W             |
| R394                | 1-216-797-11 | s RESISTOR,CHIP 10 1/10W 1608    |
| R501                | 1-216-828-11 | s RESISTOR, CHIP 3.9K 1/10W 1608 |
| R502                | 1-216-832-11 | s RESISTOR,CHIP 8.2K 1/16W 1608  |
| R503                | 1-215-920-11 | s RESISTOR,METAL FILM 3.3K 3W    |
| R504                | 1-215-920-11 | s RESISTOR,METAL FILM 3.3K 3W    |
| R506                | 1-260-329-51 | s RESISTOR,CARBON 1.2K 1/2W      |
| R507                | 1-216-423-11 | s RESISTOR,METAL FILM 27/1W      |
| R508                | 1-215-858-00 | s METAL OXIDE 15 1W              |
| R509                | 1-216-833-11 | s RESISTOR,CHIP 10K 1/10W (1608) |
| R512                | 1-218-883-11 | s RESISTOR,CHIP 33K 1/10W        |
| R513                | 1-216-829-11 | s RESISTOR,CHIP 4.7K 1/10W(1608) |
| R514                | 1-215-870-11 | s RESISTOR,METAL FILM 1.5K/1W    |
| R515                | 1-215-920-11 | s RESISTOR,METAL FILM 3.3K/3W    |
| R551                | 1-215-867-00 | s RESISTOR,METAL FILM 470/1W     |
| R552                | 1-216-445-11 | s RESISTOR,METAL FILM 12 2W      |
| R553                | 1-216-675-11 | s RESISTOR,CHIP 10K 1/10W(2012)  |
| R554                | 1-218-855-11 | s RESISTOR,CHIP 2.2K 1/10W(1608) |
| R555                | 1-215-882-00 | s RESISTOR,METAL OXIDE 22 2W     |
| R556                | 1-260-294-11 | s RESISTOR,CARBON 1.5 1/2W       |
| R557                | 1-218-855-11 | s RESISTOR,CHIP 2.2K 1/10W(1608) |
| R558                | 1-216-675-11 | s RESISTOR,CHIP 10K 1/10W(2012)  |
| R559                | 1-216-835-11 | s RESISTOR,CHIP 15K 1/10W        |
| R560                | 1-216-849-11 | s RESISTOR,CHIP 220K 1/16W 1608  |
| R561                | 1-249-392-11 | s RES,CARBON 8.2 1/4W            |
| R562                | 1-216-670-11 | s RESISTOR,CHIP 6.2K 1/10W(2012) |

## (A BOARD (FOR 20 INCH))

| Ref. No.<br>or Q'ty | Part No.       | SP Description                   |
|---------------------|----------------|----------------------------------|
| R563                | 1-216-675-11   | s RESISTOR,CHIP 10K 1/10W(2012)  |
| R564                | 1-216-827-11   | s RESISTOR, CHIP 3.3K 1/10W 1608 |
| R565                | 1-216-821-11   | s RESISTOR,CHIP 1.0K 1/10W(1608) |
| R569                | 1-216-857-11   | s RESISTOR,CHIP 1M 1/10W(1608)   |
| R570                | 1-216-421-11   | s RESISTOR,METAL FILM 12 1W      |
| R571                | 1-216-825-11   | s RESISTOR,CHIP 2.2K 1/10W 1608  |
| R572                | 1-216-833-11   | s RESISTOR,CHIP 10K 1/10W (1608) |
| R601                | Δ 1-219-759-11 | s RESISTOR (SURGE RESISTANT) 1M  |
| R602                | Δ 1-219-769-11 | s RESISTOR (SURGE) 3.3M/1/2W     |
| R603                | Δ 1-219-769-11 | s RESISTOR (SURGE) 3.3M/1/2W     |
| R604                | 1-216-845-11   | s RESISTOR,CHIP 100K 1/10W(1608) |
| R605                | 1-216-817-11   | s RESISTOR,CHIP 470 1/10W 1608   |
| R607                | 1-216-833-11   | s RESISTOR,CHIP 10K 1/10W (1608) |
| R608                | 1-216-809-11   | s RESISTOR,CHIP 100 1/10W 1608   |
| R609                | 1-218-861-11   | s RESISTOR,CHIP 3.9K 1/10W(1608) |
| R610                | 1-216-825-11   | s RESISTOR,CHIP 2.2K 1/10W 1608  |
| R611                | 1-218-875-11   | s RESISTOR,CHIP 15K 1/10W (1608) |
| R612                | 1-218-855-11   | s RESISTOR,CHIP 2.2K 1/10W(1608) |
| R613                | 1-216-825-11   | s RESISTOR,CHIP 2.2K 1/10W 1608  |
| R614                | 1-218-863-11   | s RESISTOR,CHIP 4.7K 1/10W(1608) |
| R615                | 1-245-478-21   | s ANTI SURGE RESISTOR 470K       |
| R616                | 1-245-478-21   | s ANTI SURGE RESISTOR 470K       |
| R617                | 1-219-134-11   | s RESISTOR,FUSE 0.1              |
| R620                | 1-202-933-61   | s RESISTOR, FUSE 0.1 1/2W        |
| R621                | 1-215-926-00   | s RESISTOR,METAL FILM 33K/3W     |
| R622                | 1-215-926-00   | s RESISTOR,METAL FILM 33K/3W     |
| R623                | 1-215-926-00   | s RESISTOR,METAL FILM 33K/3W     |
| R624                | 1-247-843-11   | s RESISTOR CARBON (SMALL) 3.3K   |
| R625                | 1-216-361-00   | s RESISTOR,METAL FILM 0.22/2W    |
| R626                | 1-216-363-00   | s RESISTOR,METAL FILM 0.33/2W    |
| R627                | 1-218-843-11   | s RESISTOR,CHIP 680 1/10W (1608) |
| R629                | 1-218-855-11   | s RESISTOR,CHIP 2.2K 1/10W(1608) |
| R630                | 1-249-396-11   | s RES,CARBON 18 1/4W             |
| R631                | 1-215-929-11   | s RESISTOR,METAL FILM 100K/3W    |
| R636                | 1-245-464-21   | s ANTI SURGE RESISTOR 120K       |
| R637                | 1-245-464-21   | s ANTI SURGE RESISTOR 120K       |
| R638                | 1-245-464-21   | s ANTI SURGE RESISTOR 120K       |
| R639                | 1-216-833-11   | s RESISTOR,CHIP 10K 1/10W (1608) |
| R640                | 1-218-885-11   | s RESISTOR,CHIP 39K 1/10W (1608) |
| R651                | 1-216-825-11   | s RESISTOR,CHIP 2.2K 1/10W 1608  |
| R652                | 1-216-821-11   | s RESISTOR,CHIP 1.0K 1/10W(1608) |
| R653                | 1-215-898-11   | s RESISTOR,METAL FILM 10K/2W     |
| R654                | 1-202-933-61   | s RESISTOR, FUSE 0.1 1/2W        |
| R656                | 1-249-381-11   | s RES,CARBON 1 (1/4W)            |
| R657                | 1-249-381-11   | s RES,CARBON 1 (1/4W)            |
| R658                | 1-249-409-11   | s RESISTOR,CARBON 220 1/4W SMALL |
| R659                | 1-249-413-11   | s RESISTOR,CARBON 470 1/4W SMALL |
| R660                | 1-212-857-00   | s RESISTOR,FUSE 10 1/4W          |
| R661                | 1-216-390-11   | s RESISTOR,METAL FILM 1.2 3W     |
| R662                | 1-218-849-11   | s RESISTOR,CHIP 1.2K 1/10W(1608) |
| R663                | 1-245-476-21   | s ANTI SURGE RESISTOR 390K       |
| R664                | 1-218-895-11   | s RESISTOR,CHIP 100K 1/10W(1608) |
| R665                | 1-216-835-11   | s RESISTOR,CHIP 15K 1/10W        |
| R666                | 1-218-871-11   | s RESISTOR,CHIP 10K 1/10W (1608) |
| R667                | 1-245-478-21   | s ANTI SURGE RESISTOR 470K       |
| R668                | 1-249-417-11   | s RESISTOR,CARBON 1K 1/4W(SMALL) |
| R1419               | 1-216-809-11   | s RESISTOR,CHIP 100 1/10W 1608   |
| R1420               | 1-216-809-11   | s RESISTOR,CHIP 100 1/10W 1608   |
| R3501               | 1-216-829-11   | s RESISTOR,CHIP 4.7K 1/10W(1608) |

## (A BOARD (FOR 20 INCH))

| Ref. No.<br>or Q'ty | Part No.       | SP Description                   |
|---------------------|----------------|----------------------------------|
| R3502               | 1-216-821-11   | s RESISTOR,CHIP 1.0K 1/10W(1608) |
| R3503               | 1-216-833-11   | s RESISTOR,CHIP 10K 1/10W (1608) |
| R3505               | 1-216-851-11   | s RESISTOR,CHIP 330K 1/16W 1608  |
| R3506               | 1-218-866-11   | s RESISTOR,CHIP 6.2K 1/10W(1608) |
| R3507               | 1-216-834-11   | s RESISTOR,CHIP 12K 1/16W 1608   |
| R3508               | 1-216-829-11   | s RESISTOR,CHIP 4.7K 1/10W(1608) |
| R3509               | 1-216-835-11   | s RESISTOR,CHIP 15K 1/10W        |
| R3510               | 1-216-837-11   | s RESISTOR,CHIP 22K 1/16W 1608   |
| R3512               | 1-216-813-11   | s RESISTOR, CHIP 220 1/10W 1608  |
| R3513               | 1-216-833-11   | s RESISTOR,CHIP 10K 1/10W (1608) |
| R3514               | 1-216-821-11   | s RESISTOR,CHIP 1.0K 1/10W(1608) |
| RY603               | Δ 1-755-013-11 | s RELAY (12V)                    |
| S001                | 1-571-532-21   | s SWITCH,TACTILE                 |
| S002                | 1-571-532-21   | s SWITCH,TACTILE                 |
| S003                | 1-571-532-21   | s SWITCH,TACTILE                 |
| S004                | 1-571-532-21   | s SWITCH,TACTILE                 |
| S005                | 1-571-532-21   | s SWITCH,TACTILE                 |
| S006                | 1-571-532-21   | s SWITCH,TACTILE                 |
| S501                | 1-572-707-11   | s SWITCH, LEVER                  |
| S601                | Δ 1-571-433-21 | s SWITCH, PUSH (AC POWER)        |
| SG501               | 1-519-422-11   | s GAP, SPARK                     |
| T501                | Δ 1-453-446-21 | s NX-4525//Z2A4                  |
| T502                | 1-437-090-31   | s TRANSFORMER, HDT               |
| T601                | Δ 1-443-029-11 | s CONVERTER TRANSFORMER (SRT)    |
| T603                | Δ 1-429-180-11 | s TRANSFORMER, LINE FILTER       |
| THP601              | Δ 1-808-059-31 | s THERMISTOR, POSITIVE           |
| VDR601              | Δ 1-803-830-31 | s VARISTOR (ERZV14D621)          |
| X001                | 1-578-774-11   | s VIBRATOR, CRYSTAL (12MHz)      |

## C BOARD (FOR 14 INCH)

| Ref. No.<br>or Q'ty | Part No.     | SP Description                      |
|---------------------|--------------|-------------------------------------|
| 1pc                 | A-1405-326-A | s MOUNTED CIRCUIT BOARD, C          |
| 1pc                 | 4-382-854-11 | s SCREW, +PSW M3X10 (EP-FE/ZNBK/CM  |
| C701                | 1-136-189-71 | s CAP, METALIZED FILM 250V/0.1MF    |
| C702                | 1-104-999-11 | s CAPACITOR FILM 0.1MF/200V PETP    |
| C711                | 1-107-662-11 | s CAPACITOR, ELECT 22MF/350V        |
| C712                | 1-107-649-11 | s CAP, ELECT 2.2MF/250V             |
| C750                | 1-126-964-11 | s CAPACITOR, ELECT 10MF/50V         |
| C751                | 1-137-372-11 | s CAPACITOR, PETP FILM 0.022        |
| C752                | 1-136-189-71 | s CAP, METALIZED FILM 250V/0.1MF    |
| C770                | 1-162-116-00 | s CAPACITOR, CERAMIC 680PF/2KVDC    |
| C771                | 1-107-846-11 | s CAPACITOR FILM 0.10MF/400V(S)     |
| C790                | 1-130-338-11 | s CAPACITOR, FILM 0.01MF/630V (PP)  |
| CN701               | 1-564-511-11 | o PLUG, CONNECTOR (8P)              |
| CN720               | 1-695-915-11 | s TAB (CONTACT)                     |
| CN721               | 1-695-915-11 | s TAB (CONTACT)                     |
| CN722               | 1-695-915-11 | s TAB (CONTACT)                     |
| CN730               | 1-573-964-11 | o PIN, CONNECTOR (PC BOARD) 6P      |
| D701                | 8-719-901-83 | s DIODE 1SS83                       |
| D702                | 8-719-901-83 | s DIODE 1SS83                       |
| D703                | 8-719-901-83 | s DIODE 1SS83                       |
| D704                | 8-719-901-83 | s DIODE 1SS83                       |
| D750                | 8-719-991-33 | s DIODE 1SS133T-77                  |
| IC701               | 8-759-562-43 | s IC TDA6108JF/N1B                  |
| J701                | 1-526-819-11 | s SOCKET, CRT                       |
| L710                | 1-412-529-11 | s INDUCTOR, MICRO 22UH              |
| R700                | 1-249-397-11 | s RES, CARBON 22 1/4W (SMALL)       |
| R701                | 1-249-409-11 | s RESISTOR, CARBON 220 1/4W SMALL   |
| R702                | 1-249-409-11 | s RESISTOR, CARBON 220 1/4W SMALL   |
| R703                | 1-249-409-11 | s RESISTOR, CARBON 220 1/4W SMALL   |
| R721                | 1-249-411-11 | s RES, CARBON 330 1/4W SMALL        |
| R722                | 1-249-411-11 | s RES, CARBON 330 1/4W SMALL        |
| R723                | 1-249-411-11 | s RES, CARBON 330 1/4W SMALL        |
| R741                | 1-219-746-11 | s RESISTOR 1K 1/2W (SURGE)          |
| R742                | 1-219-746-11 | s RESISTOR 1K 1/2W (SURGE)          |
| R743                | 1-219-746-11 | s RESISTOR 1K 1/2W (SURGE)          |
| R750                | 1-249-429-11 | s RESISTOR, CARBON (SMALL) 10K 1/4W |
| R761                | 1-219-759-11 | s RESISTOR (SURGE RESISTANT) 1M     |
| R770                | 1-216-370-11 | s RESISTOR, METAL FILM 1.2/2W       |
| R771                | 1-219-753-11 | s RESISTOR (SURGE RESISTANT) 220K   |
| R772                | 1-240-936-11 | s RESISTOR (SURGE RESISTANT) 68K    |
| R791                | 1-219-752-11 | s RESISTOR 100K1/2W (SURGE)         |
| R792                | 1-219-754-11 | s RESISTOR (SURGE RESISTANT) 680K   |
| R793                | 1-247-903-00 | s RESISTOR, CARBON 1M 1/4W          |
| RV750               | 1-230-641-11 | s RESISTOR, ADJ, METAL GLAZE 2.2M   |
| RV760               | 1-230-619-11 | s RESISTOR, ADJ 110M (METAL)        |
| RV790               | 1-230-641-11 | s RESISTOR, ADJ, METAL GLAZE 2.2M   |

## C BOARD (FOR 20 INCH)

| Ref. No.<br>or Q'ty | Part No.     | SP Description                      |
|---------------------|--------------|-------------------------------------|
| 1pc                 | A-1405-331-A | s MOUNTED CIRCUIT BOARD, C          |
| 1pc                 | 4-382-854-11 | s SCREW, +PSW M3X10 (EP-FE/ZNBK/CM  |
| C701                | 1-136-189-71 | s CAP, METALIZED FILM 250V/0.1MF    |
| C702                | 1-104-999-11 | s CAPACITOR FILM 0.1MF/200V PETP    |
| C711                | 1-107-662-11 | s CAPACITOR, ELECT 22MF/350V        |
| C712                | 1-107-649-11 | s CAP, ELECT 2.2MF/250V             |
| C750                | 1-126-964-11 | s CAPACITOR, ELECT 10MF/50V         |
| C751                | 1-137-372-11 | s CAPACITOR, PETP FILM 0.022        |
| C752                | 1-136-189-71 | s CAP, METALIZED FILM 250V/0.1MF    |
| C770                | 1-162-116-00 | s CAPACITOR, CERAMIC 680PF/2KVDC    |
| C771                | 1-107-846-11 | s CAPACITOR FILM 0.10MF/400V(S)     |
| C790                | 1-130-338-11 | s CAPACITOR, FILM 0.01MF/630V (PP)  |
| CN701               | 1-564-511-11 | o PLUG, CONNECTOR (8P)              |
| CN710               | 1-573-964-11 | o PIN, CONNECTOR (PC BOARD) 6P      |
| CN720               | 1-695-915-11 | s TAB (CONTACT)                     |
| CN721               | 1-695-915-11 | s TAB (CONTACT)                     |
| CN722               | 1-695-915-11 | s TAB (CONTACT)                     |
| D701                | 8-719-901-83 | s DIODE 1SS83                       |
| D702                | 8-719-901-83 | s DIODE 1SS83                       |
| D703                | 8-719-901-83 | s DIODE 1SS83                       |
| D704                | 8-719-901-83 | s DIODE 1SS83                       |
| D750                | 8-719-991-33 | s DIODE 1SS133T-77                  |
| IC701               | 8-759-562-43 | s IC TDA6108JF/N1B                  |
| J701                | 1-540-124-21 | s SOCKET, CRT                       |
| L710                | 1-412-529-11 | s INDUCTOR, MICRO 22UH              |
| R700                | 1-249-397-11 | s RES, CARBON 22 1/4W (SMALL)       |
| R701                | 1-249-409-11 | s RESISTOR, CARBON 220 1/4W SMALL   |
| R702                | 1-249-409-11 | s RESISTOR, CARBON 220 1/4W SMALL   |
| R703                | 1-249-409-11 | s RESISTOR, CARBON 220 1/4W SMALL   |
| R721                | 1-249-411-11 | s RES, CARBON 330 1/4W SMALL        |
| R722                | 1-249-411-11 | s RES, CARBON 330 1/4W SMALL        |
| R723                | 1-249-411-11 | s RES, CARBON 330 1/4W SMALL        |
| R741                | 1-219-746-11 | s RESISTOR 1K 1/2W (SURGE)          |
| R742                | 1-219-746-11 | s RESISTOR 1K 1/2W (SURGE)          |
| R743                | 1-219-746-11 | s RESISTOR 1K 1/2W (SURGE)          |
| R750                | 1-249-429-11 | s RESISTOR, CARBON (SMALL) 10K 1/4W |
| R770                | 1-219-753-11 | s RESISTOR (SURGE RESISTANT) 220K   |
| R771                | 1-216-371-00 | s RESISTOR, METAL FILM 1.5/2W       |
| R772                | 1-240-936-11 | s RESISTOR (SURGE RESISTANT) 68K    |
| R790                | 1-219-752-11 | s RESISTOR 100K1/2W (SURGE)         |
| R791                | 1-219-754-11 | s RESISTOR (SURGE RESISTANT) 680K   |
| R792                | 1-219-752-11 | s RESISTOR 100K1/2W (SURGE)         |
| R793                | 1-247-903-00 | s RESISTOR, CARBON 1M 1/4W          |
| RV750               | 1-241-714-11 | s RESISTOR, ADJ, METAL FILM 110M    |
| RV790               | 1-230-641-11 | s RESISTOR, ADJ, METAL GLAZE 2.2M   |

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Q BOARD  
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| Ref. No.<br>or Q'ty | Part No.     | SP Description                        |
|---------------------|--------------|---------------------------------------|
| 1pc                 | A-1405-329-A | s MOUNTED CIRCUIT BOARD, Q(L1)        |
| 1pc                 | A-1410-483-A | s MOUNTED CIRCUIT BOARD, Q(MDE)       |
| 2pcs                | 7-627-557-48 | s SCREW +P2.6X10 (EP-FE/ZNBK/CM2)     |
| C201                | 1-126-514-11 | s CAPACITOR, ELECT 22MF/16V           |
| C202                | 1-164-227-11 | s CAPACITOR, CERAMIC 0.022MF/25V      |
| C203                | 1-126-514-11 | s CAPACITOR, ELECT 22MF/16V           |
| C206                | 1-126-514-11 | s CAPACITOR, ELECT 22MF/16V           |
| C207                | 1-107-823-11 | s CAPACITOR, CERAMIC 0.47MF/16V       |
| C209                | 1-126-514-11 | s CAPACITOR, ELECT 22MF/16V           |
| C210                | 1-107-823-11 | s CAPACITOR, CERAMIC 0.47MF/16V       |
| C211                | 1-126-795-11 | s CAPACITOR, ELECT 10MF/50V           |
| C215                | 1-126-795-11 | s CAPACITOR, ELECT 10MF/50V           |
| C216                | 1-126-795-11 | s CAPACITOR, ELECT 10MF/50V           |
| C217                | 1-126-795-11 | s CAPACITOR, ELECT 10MF/50V           |
| C218                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF       |
| C219                | 1-126-786-11 | s CAPACITOR, ELECT 47MF/16V           |
| C220                | 1-126-514-11 | s CAPACITOR, ELECT 22MF/16V           |
| C221                | 1-126-795-11 | s CAPACITOR, ELECT 10MF/50V           |
| C222                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B      |
| C223                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B      |
| C224                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B      |
| C225                | 1-126-514-11 | s CAPACITOR, ELECT 22MF/16V           |
| C226                | 1-126-514-11 | s CAPACITOR, ELECT 22MF/16V           |
| C229                | 1-107-823-11 | s CAPACITOR, CERAMIC 0.47MF/16V       |
| C230                | 1-107-823-11 | s CAPACITOR, CERAMIC 0.47MF/16V       |
| C231                | 1-126-795-11 | s CAPACITOR, ELECT 10MF/50V           |
| C232                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B(MDE) |
| C233                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B(MDE) |
| C234                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B(MDE) |
| C235                | 1-162-970-11 | s CAPACITOR CERAMIC 0.01MF/25V B(MDE) |
| C236                | 1-107-826-11 | s CAPACITOR, CHIP CERAMIC 0.1MF       |
| C239                | 1-126-514-11 | s CAPACITOR, ELECT 22MF/16V           |
| CN201               | 1-564-527-11 | o PLUG, CONNECTOR (12P) (L-TYPE)      |
| CN202               | 1-565-167-12 | s TERMINAL, (S) (WITH SW) 4P          |
| CN203               | 1-569-578-11 | s TERMINAL, S (WITH SW)               |
| CN204               | 1-564-522-11 | o PLUG, CONNECTOR (7P) (L-TYPE)       |
| CN205               | 1-569-023-11 | s JACK, MODULAR 8P (MDE)              |
| CN206               | 1-565-167-12 | s TERMINAL, (S) (WITH SW) 4P          |
| D201                | 8-719-991-33 | s DIODE 1SS133T-77                    |
| D202                | 8-719-991-33 | s DIODE 1SS133T-77                    |
| D203                | 8-719-991-33 | s DIODE 1SS133T-77                    |
| D204                | 8-719-991-33 | s DIODE 1SS133T-77                    |
| D205                | 8-719-991-33 | s DIODE 1SS133T-77                    |
| D206                | 8-719-991-33 | s DIODE 1SS133T-77                    |
| D207                | 8-719-991-33 | s DIODE 1SS133T-77                    |
| D208                | 8-719-991-33 | s DIODE 1SS133T-77                    |
| D209                | 8-719-991-33 | s DIODE 1SS133T-77                    |
| D210                | 8-719-991-33 | s DIODE 1SS133T-77                    |
| D211                | 8-719-991-33 | s DIODE 1SS133T-77                    |
| D212                | 8-719-991-33 | s DIODE 1SS133T-77                    |
| D213                | 8-719-991-33 | s DIODE 1SS133T-77                    |
| D214                | 8-719-991-33 | s DIODE 1SS133T-77                    |
| D215                | 8-719-991-33 | s DIODE 1SS133T-77                    |
| D216                | 8-719-991-33 | s DIODE 1SS133T-77                    |
| D219                | 8-719-073-01 | s DIODE MA111-(K8).S0                 |
| D220                | 8-719-073-01 | s DIODE MA111-(K8).S0                 |
| D221                | 8-719-082-00 | s DIODE MM3Z4V7T1                     |
| D222                | 8-719-082-00 | s DIODE MM3Z4V7T1                     |

(Q BOARD)

| Ref. No.<br>or Q'ty | Part No.     | SP Description                     |
|---------------------|--------------|------------------------------------|
| D223                | 8-719-073-01 | s DIODE MA111-(K8).S0              |
| D224                | 8-719-073-01 | s DIODE MA111-(K8).S0              |
| D225                | 8-719-073-01 | s DIODE MA111-(K8).S0              |
| D226                | 8-719-073-01 | s DIODE MA111-(K8).S0              |
| D227                | 8-719-073-01 | s DIODE MA111-(K8).S0              |
| D228                | 8-719-073-01 | s DIODE MA111-(K8).S0              |
| D229                | 6-500-019-01 | s DIODE MM3Z3V9ST1                 |
| D231                | 6-500-019-01 | s DIODE MM3Z3V9ST1                 |
| D232                | 6-500-019-01 | s DIODE MM3Z3V9ST1                 |
| IC201               | 8-759-446-66 | s IC MM1113XFB                     |
| JR201               | 1-216-295-91 | s CONDUCTOR, CHIP (2012)           |
| Q201                | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6          |
| Q202                | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6          |
| Q203                | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6          |
| Q204                | 8-729-026-49 | s TRANSISTOR 2SA1037AK-T146-R      |
| Q205                | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6          |
| Q206                | 8-729-026-49 | s TRANSISTOR 2SA1037AK-T146-R      |
| Q207                | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6          |
| Q208                | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6          |
| Q209                | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6          |
| Q210                | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6          |
| Q211                | 1-801-806-11 | s TRANSISTOR DTC144EKA             |
| Q212                | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6          |
| Q213                | 1-801-806-11 | s TRANSISTOR DTC144EKA             |
| Q214                | 8-729-120-28 | s TRANSISTOR 2SC1623-L5L6          |
| R201                | 1-214-837-11 | s RESISTOR, METAL FILM 75, 1/2W    |
| R202                | 1-216-843-11 | s RESISTOR, CHIP 68K 1/10W (1608)  |
| R203                | 1-216-821-11 | s RESISTOR, CHIP 1.0K 1/10W (1608) |
| R204                | 1-216-842-11 | s RESISTOR, CHIP 56K 1/16W (1608)  |
| R205                | 1-216-825-11 | s RESISTOR, CHIP 2.2K 1/10W 1608   |
| R206                | 1-216-809-11 | s RESISTOR, CHIP 100 1/10W 1608    |
| R207                | 1-216-843-11 | s RESISTOR, CHIP 68K 1/10W (1608)  |
| R208                | 1-216-821-11 | s RESISTOR, CHIP 1.0K 1/10W (1608) |
| R209                | 1-216-842-11 | s RESISTOR, CHIP 56K 1/16W (1608)  |
| R210                | 1-214-837-11 | s RESISTOR, METAL FILM 75, 1/2W    |
| R211                | 1-216-825-11 | s RESISTOR, CHIP 2.2K 1/10W 1608   |
| R212                | 1-216-809-11 | s RESISTOR, CHIP 100 1/10W 1608    |
| R213                | 1-216-843-11 | s RESISTOR, CHIP 68K 1/10W (1608)  |
| R214                | 1-216-821-11 | s RESISTOR, CHIP 1.0K 1/10W (1608) |
| R215                | 1-216-842-11 | s RESISTOR, CHIP 56K 1/16W (1608)  |
| R216                | 1-216-825-11 | s RESISTOR, CHIP 2.2K 1/10W 1608   |
| R217                | 1-216-809-11 | s RESISTOR, CHIP 100 1/10W 1608    |
| R218                | 1-214-837-11 | s RESISTOR, METAL FILM 75, 1/2W    |
| R219                | 1-216-854-11 | s RESISTOR, CHIP 560K 1/16W 1608   |
| R220                | 1-216-835-11 | s RESISTOR, CHIP 15K 1/10W         |
| R221                | 1-216-809-11 | s RESISTOR, CHIP 100 1/10W 1608    |
| R222                | 1-216-845-11 | s RESISTOR, CHIP 100K 1/10W (1608) |
| R223                | 1-216-849-11 | s RESISTOR, CHIP 220K 1/16W 1608   |
| R224                | 1-214-911-11 | s RESISTOR, METAL FILM 82K/1/2W    |
| R225                | 1-216-809-11 | s RESISTOR, CHIP 100 1/10W 1608    |
| R226                | 1-216-821-11 | s RESISTOR, CHIP 1.0K 1/10W (1608) |
| R227                | 1-216-809-11 | s RESISTOR, CHIP 100 1/10W 1608    |
| R228                | 1-214-837-11 | s RESISTOR, METAL FILM 75, 1/2W    |
| R229                | 1-216-843-11 | s RESISTOR, CHIP 68K 1/10W (1608)  |
| R230                | 1-216-821-11 | s RESISTOR, CHIP 1.0K 1/10W (1608) |
| R231                | 1-216-842-11 | s RESISTOR, CHIP 56K 1/16W (1608)  |
| R232                | 1-216-825-11 | s RESISTOR, CHIP 2.2K 1/10W 1608   |

## (Q BOARD)

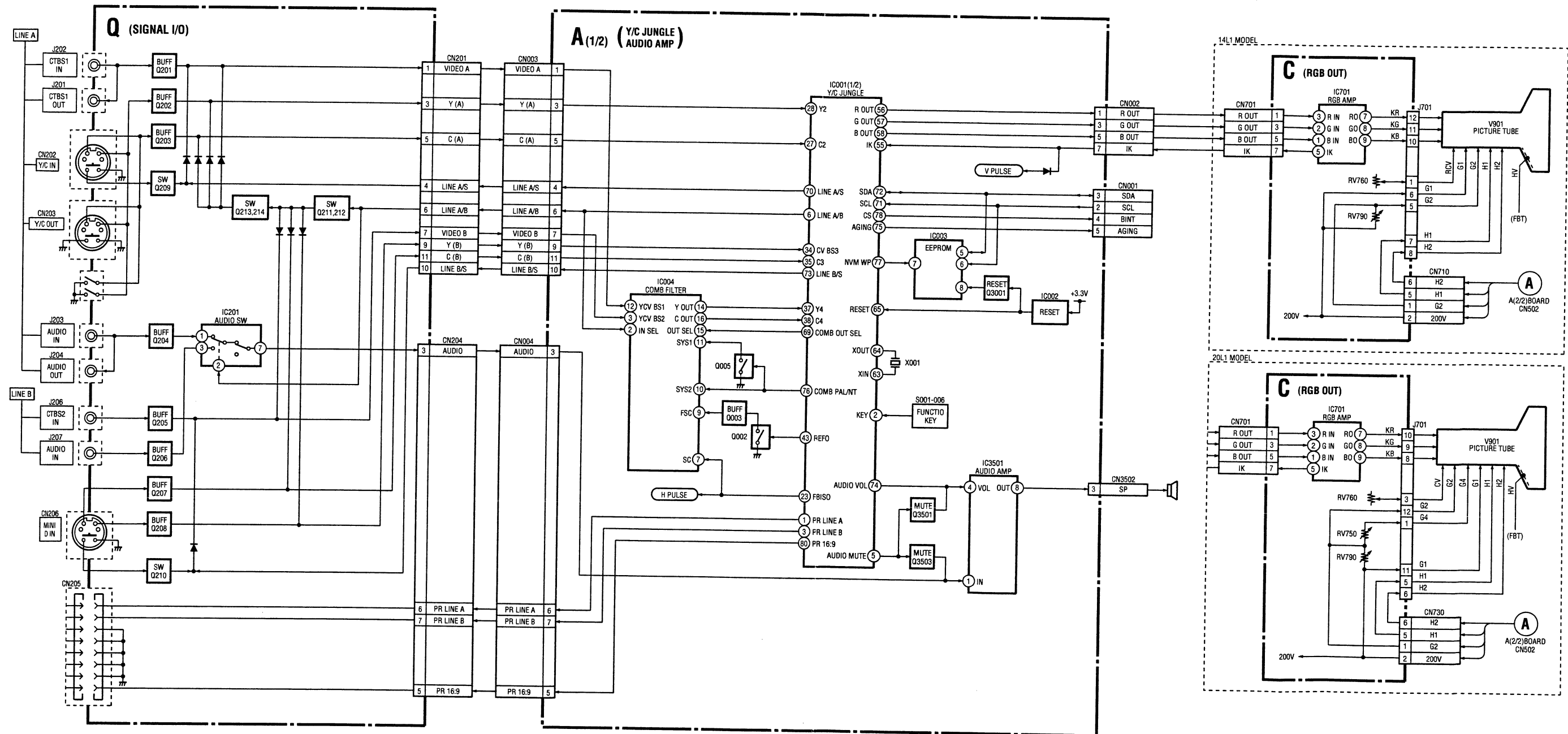
| Ref. No.<br>or Q'ty | Part No.     | SP Description                           |
|---------------------|--------------|------------------------------------------|
| R233                | 1-216-854-11 | s RESISTOR, CHIP 560K 1/16W 1608         |
| R234                | 1-216-835-11 | s RESISTOR, CHIP 15K 1/10W               |
| R235                | 1-214-911-11 | s RESISTOR, METAL FILM 82K/1/2W          |
| R236                | 1-216-845-11 | s RESISTOR, CHIP 100K 1/10W (1608)       |
| R237                | 1-216-849-11 | s RESISTOR, CHIP 220K 1/16W 1608         |
| R238                | 1-216-837-11 | s RESISTOR, CHIP 22K 1/16W 1608          |
| R239                | 1-216-821-11 | s RESISTOR, CHIP 1.0K 1/10W (1608) (MDE) |
| R240                | 1-216-821-11 | s RESISTOR, CHIP 1.0K 1/10W (1608) (MDE) |
| R241                | 1-216-821-11 | s RESISTOR, CHIP 1.0K 1/10W (1608) (MDE) |
| R242                | 1-216-837-11 | s RESISTOR, CHIP 22K 1/16W 1608          |
| R243                | 1-216-825-11 | s RESISTOR, CHIP 2.2K 1/10W 1608         |
| R244                | 1-216-821-11 | s RESISTOR, CHIP 1.0K 1/10W (1608)       |
| R245                | 1-216-821-11 | s RESISTOR, CHIP 1.0K 1/10W (1608)       |
| R246                | 1-216-825-11 | s RESISTOR, CHIP 2.2K 1/10W 1608         |
| R247                | 1-216-809-11 | s RESISTOR, CHIP 100 1/10W 1608          |
| R248                | 1-216-809-11 | s RESISTOR, CHIP 100 1/10W 1608          |
| R249                | 1-214-837-11 | s RESISTOR, METAL FILM 75, 1/2W          |
| R250                | 1-214-837-11 | s RESISTOR, METAL FILM 75, 1/2W          |
| R257                | 1-216-843-11 | s RESISTOR, CHIP 68K 1/10W (1608)        |
| R258                | 1-216-842-11 | s RESISTOR, CHIP 56K 1/16W (1608)        |
| R259                | 1-216-843-11 | s RESISTOR, CHIP 68K 1/10W (1608)        |
| R260                | 1-216-842-11 | s RESISTOR, CHIP 56K 1/16W (1608)        |
| R261                | 1-216-821-11 | s RESISTOR, CHIP 1.0K 1/10W (1608)       |
| R262                | 1-216-821-11 | s RESISTOR, CHIP 1.0K 1/10W (1608)       |
| R263                | 1-216-833-11 | s RESISTOR, CHIP 10K 1/10W (1608)        |
| R264                | 1-216-833-11 | s RESISTOR, CHIP 10K 1/10W (1608)        |
| R265                | 1-216-833-11 | s RESISTOR, CHIP 10K 1/10W (1608)        |
| R266                | 1-216-833-11 | s RESISTOR, CHIP 10K 1/10W (1608)        |
| R267                | 1-216-817-11 | s RESISTOR, CHIP 470 1/10W 1608          |
| R268                | 1-216-817-11 | s RESISTOR, CHIP 470 1/10W 1608          |
| R269                | 1-216-833-11 | s RESISTOR, CHIP 10K 1/10W (1608)        |
| R270                | 1-216-833-11 | s RESISTOR, CHIP 10K 1/10W (1608)        |
| R271                | 1-216-817-11 | s RESISTOR, CHIP 470 1/10W 1608          |
| R272                | 1-216-833-11 | s RESISTOR, CHIP 10K 1/10W (1608)        |
| R273                | 1-216-833-11 | s RESISTOR, CHIP 10K 1/10W (1608)        |
| R274                | 1-216-817-11 | s RESISTOR, CHIP 470 1/10W 1608          |

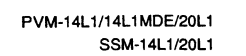
## ACCESSORIES

| Ref. No.<br>or Q'ty | Part No.       | SP Description                                                                                        |
|---------------------|----------------|-------------------------------------------------------------------------------------------------------|
| 1pc                 | 4-096-626-01   | s MANUAL, INSTRUCTION (JAPANESE, ENGLISH, FRENCH, GERMAN, ITALIAN, SPANISH, SIMPLIFIED CHINESE)       |
| 1pc                 | 4-099-916-01   | s MANUAL, INSTRUCTION (MDE) (ENGLISH, FRENCH, GERMAN, ITALIAN, SPANISH, SIMPLIFIED CHINESE)           |
| 1pc                 | 4-099-913-11   | s MANUAL, INSTRUCTION (SSM) (JAPANESE, ENGLISH, FRENCH, GERMAN, ITALIAN, SPANISH, SIMPLIFIED CHINESE) |
| 1pc                 | Δ —————        | s POWER CORD (See Warning On Power Connection)                                                        |
|                     | Δ 1-783-481-42 | s CORD, POWER (CHINESE)                                                                               |

## Section 6

### Block Diagrams





Section 7  
Diagrams

Note:

- Parts marked “ \* ” differ according to the model/destination. Refer to the mount table for each function.
- The parts marked “ # ” on schematic diagrams are not mounted.
- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\mu\text{F}$  50WV or less are not indicated except for electrolytics.
- All electrolytics are in 50 V unless otherwise specified.
-  : fusible resistor
-  : nonflammable resistor
- $\Delta$  : internal component
-  : panel designation and adjustment for repair
- Caution when replacing chip parts  
New parts must be attached after removal of the chip.  
Be careful not to heat the minus side of a tantalum capacitor, because it is easily damaged by the heat.

Reference information

|           |       |                            |
|-----------|-------|----------------------------|
| RESISTOR  | RN    | : METAL FILM               |
|           | RC    | : SOLID                    |
|           | FPRD  | : NONFLAMMABLE CARBON      |
|           | FUSE  | : NONFLAMMABLE FUSIBLE     |
|           | RS    | : NONFLAMMABLE METAL OXIDE |
|           | RB    | : NONFLAMMABLE CEMENT      |
|           | RW    | : NONFLAMMABLE WIREWOUND   |
|           | ※     | : ADJUSTMENT RESISTOR      |
| COIL      | LF-8L | : MICRO INDUCTOR           |
| CAPACITOR | TA    | : TANTALUM                 |
|           | PS    | : STYROL                   |
|           | PP    | : POLYPROPYLENE            |
|           | PT    | : MYLAR                    |
|           | MPS   | : METALIZED POLYESTER      |
|           | MPP   | : METALIZED POLYPROPYLENE  |
|           | ALB   | : BIPOLAR                  |
|           | ALT   | : HIGH TEMPERATURE         |
|           | ALR   | : HIGH RIPPLE              |

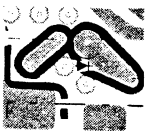
- When replacing components marked  , make the necessary adjustments indicated.

[Measuring conditions, voltage and waveform]

- A voltage value is the reference value between the measurement point and the earth, when the NTSC color bar signal (100%) is received from the color bar generator. (digital multi-meter used: 10 M ohms/V DC)
- Unit of voltage is V (volt).  
(Voltage variations may occur due to normal production tolerances.)
-  : B+line
-  : B- line
- No mark : NTSC (3.58 MHz) color bar signal.
-  : Measurement disabled.
- Circled numbers indicate the reference waveform.
-  : Signal path.

The components identified marked  $\Delta$  are critical for safety.  
Replace only with the part number specified.

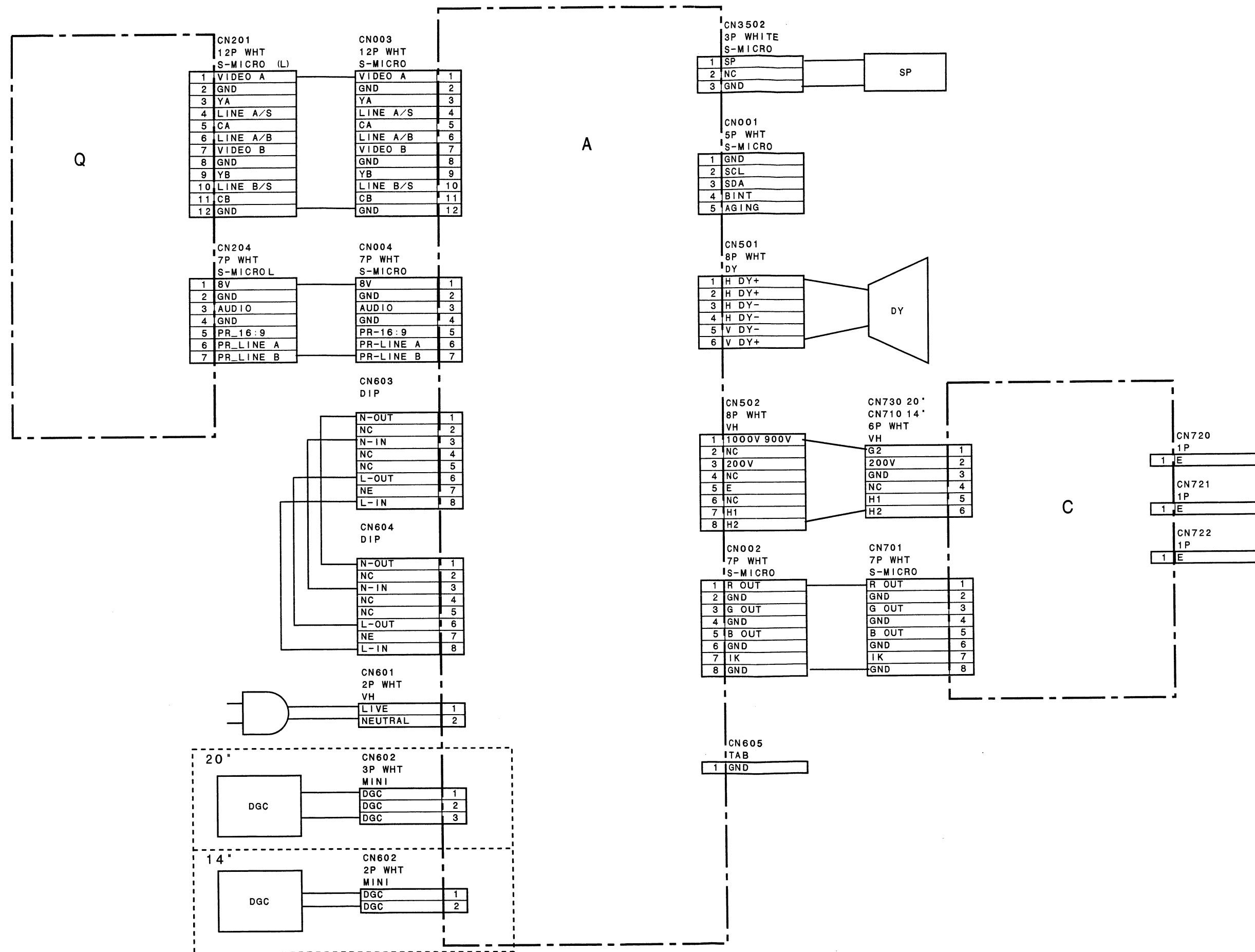
Les composants identifiés par la marque  $\Delta$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.



NOTE:

The circuit indicated as shown on the left contains high voltages of over 600 Vp-p. Take care to avoid electric shock during inspection or repair work.

# 7-1. Frame Schematic Diagram

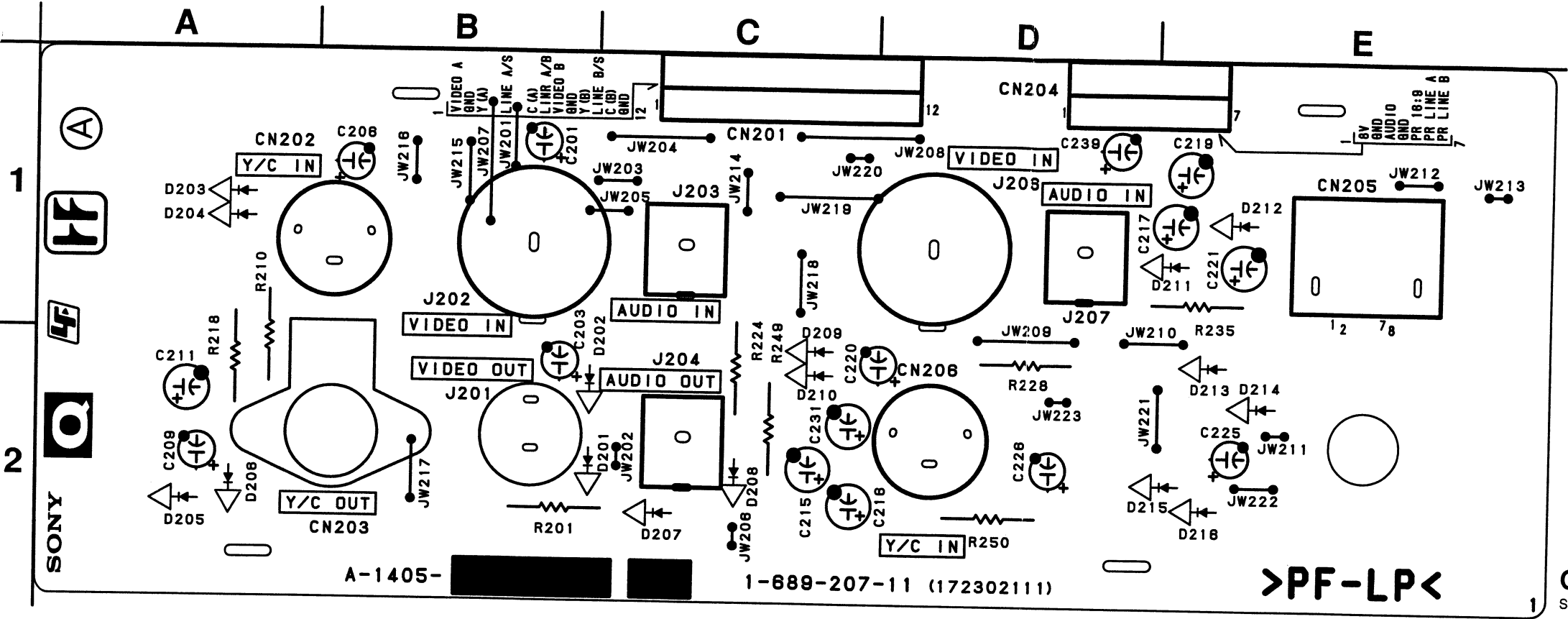


7-2

7-2

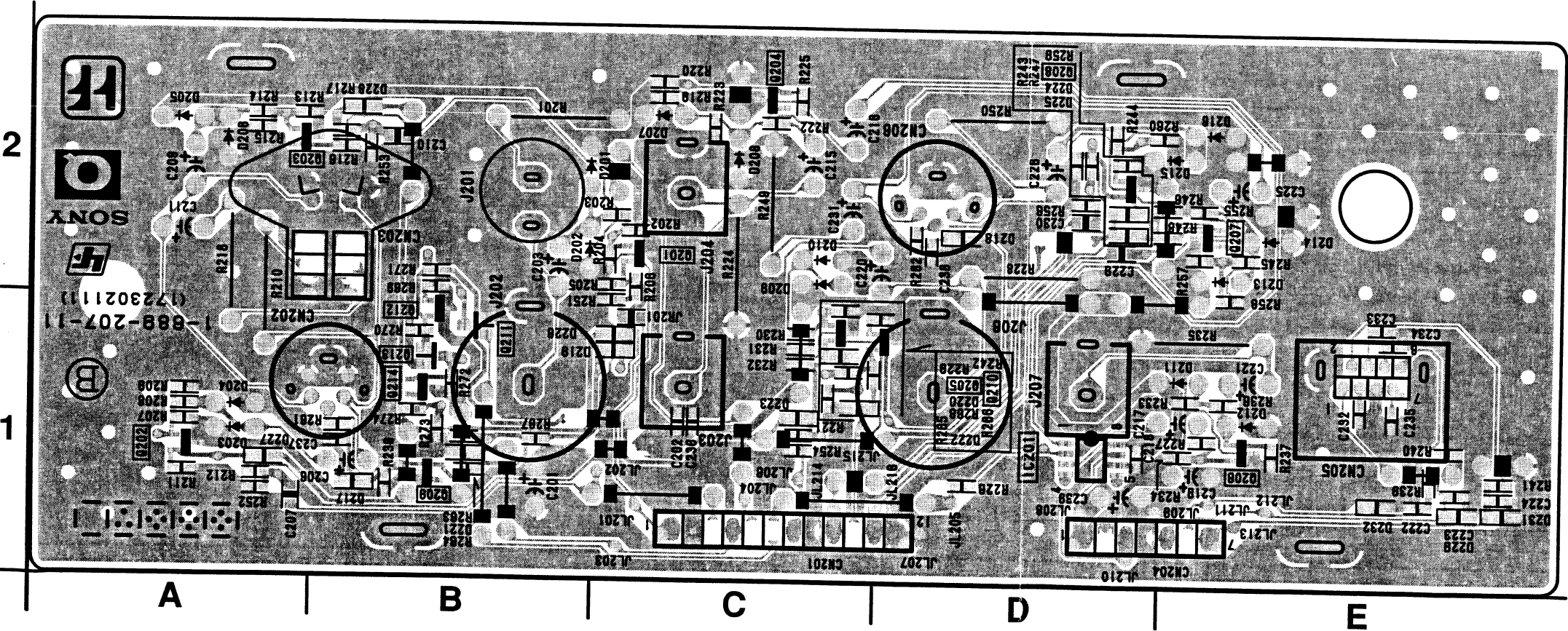
7-2. Schematic Diagrams and Board Layouts

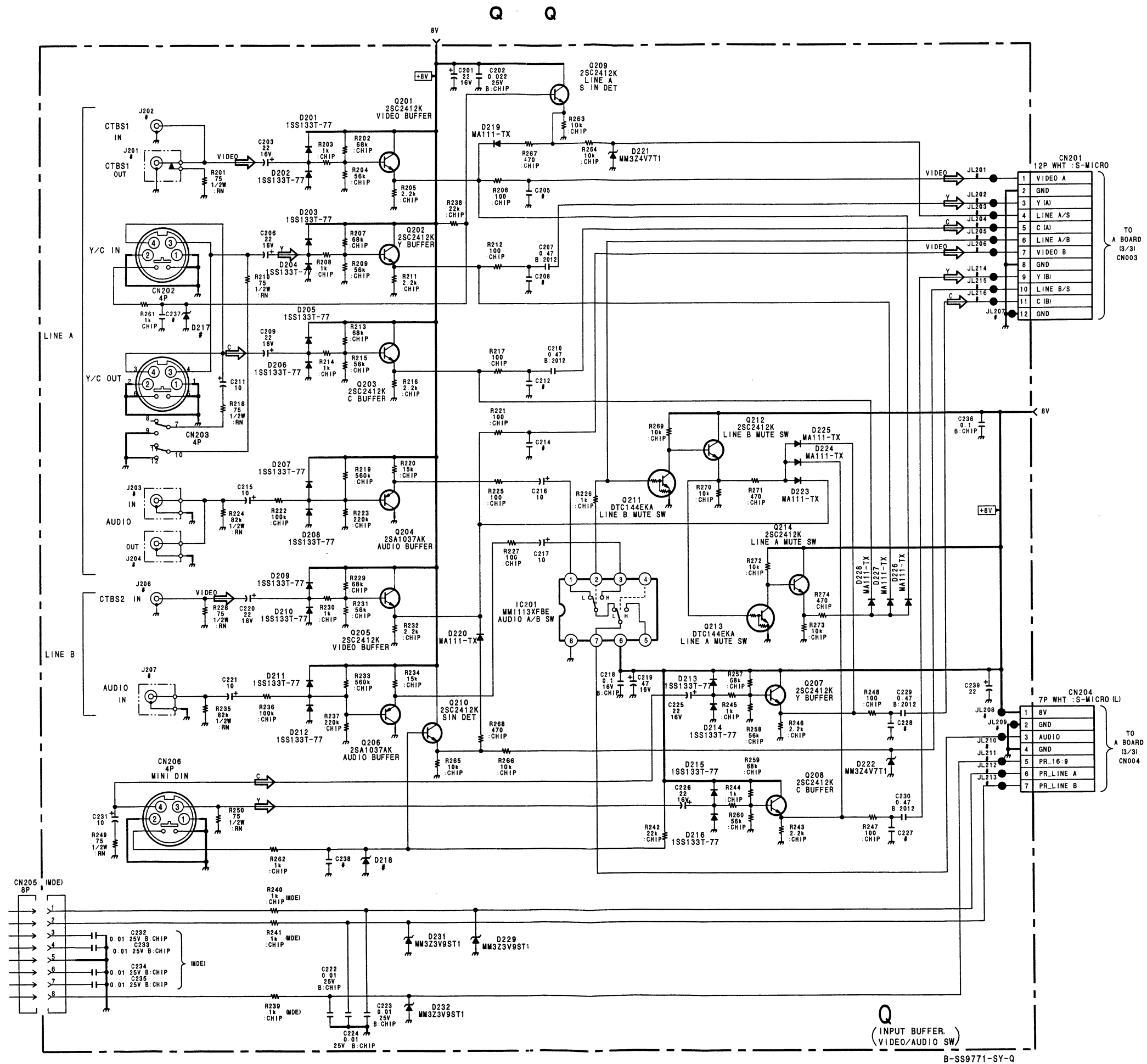
Q Q



Q BOARD  
\*:B SIDE

|       |       |
|-------|-------|
| D201  | C-2   |
| D202  | C-2   |
| D203  | A-1   |
| D204  | A-1   |
| D205  | A-2   |
| D206  | A-2   |
| D207  | C-2   |
| D208  | C-2   |
| D209  | C-2   |
| D210  | C-2   |
| D211  | E-1   |
| D212  | E-1   |
| D213  | E-2   |
| D214  | E-2   |
| D215  | E-2   |
| D216  | E-2   |
| D217  | * B-1 |
| D218  | * D-2 |
| D219  | * B-1 |
| D220  | * D-1 |
| D221  | * B-1 |
| D222  | * D-1 |
| D223  | * C-1 |
| D224  | * D-2 |
| D225  | * D-2 |
| D226  | * B-1 |
| D227  | * A-1 |
| D228  | * B-2 |
| D229  | * E-1 |
| D231  | * E-1 |
| D232  | * E-1 |
| IC201 | * D-1 |
| Q201  | * C-2 |
| Q202  | * A-1 |
| Q203  | * A-2 |
| Q204  | * C-2 |
| Q205  | * D-1 |
| Q206  | * E-1 |
| Q207  | * E-2 |
| Q208  | * D-2 |
| Q209  | * B-1 |
| Q210  | * D-1 |
| Q211  | * B-1 |
| Q212  | * B-1 |
| Q213  | * B-1 |
| Q214  | * B-1 |



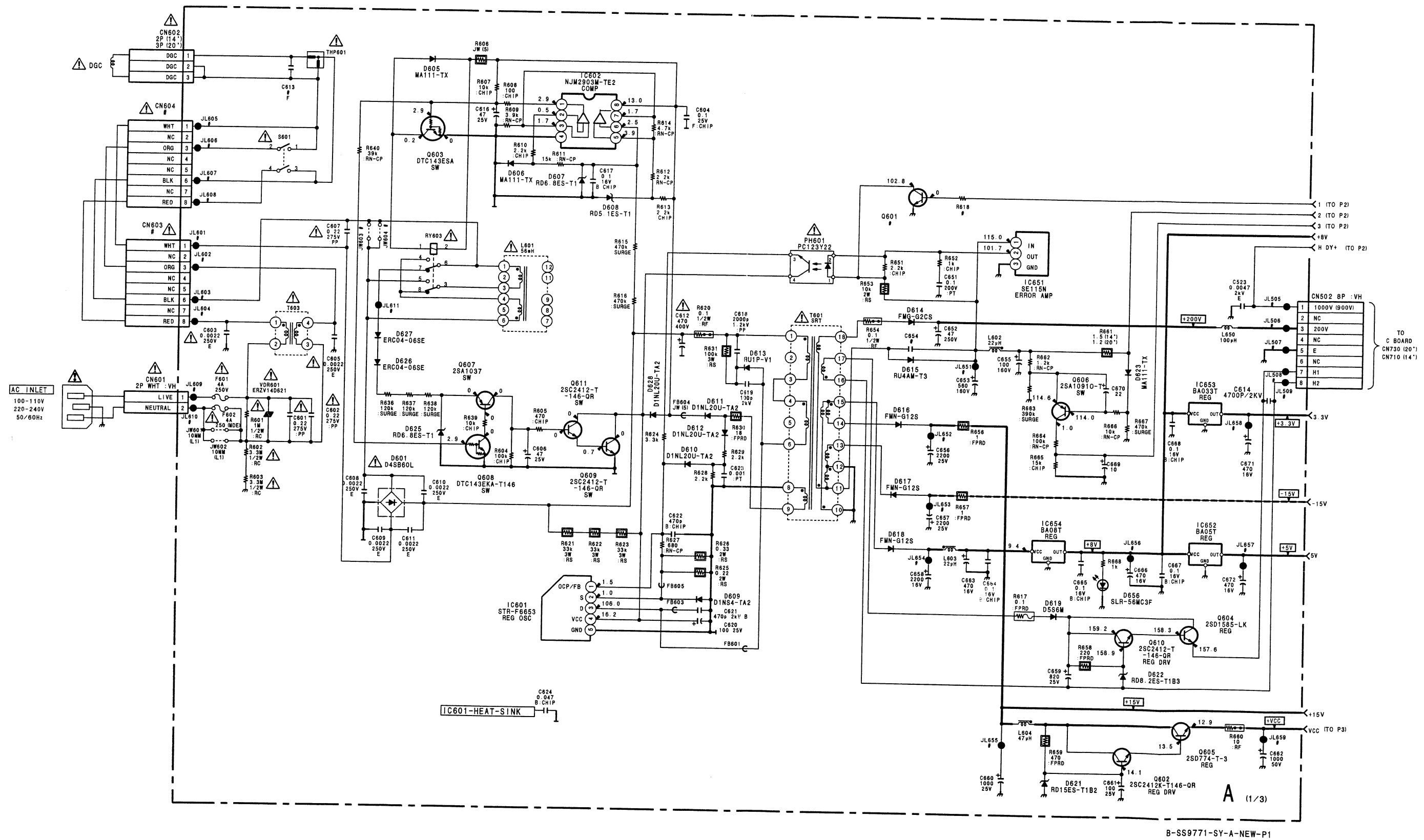


7-4

7-4

PVM-14L1/14L1MDE/20L1  
SSM-14L1/20L1

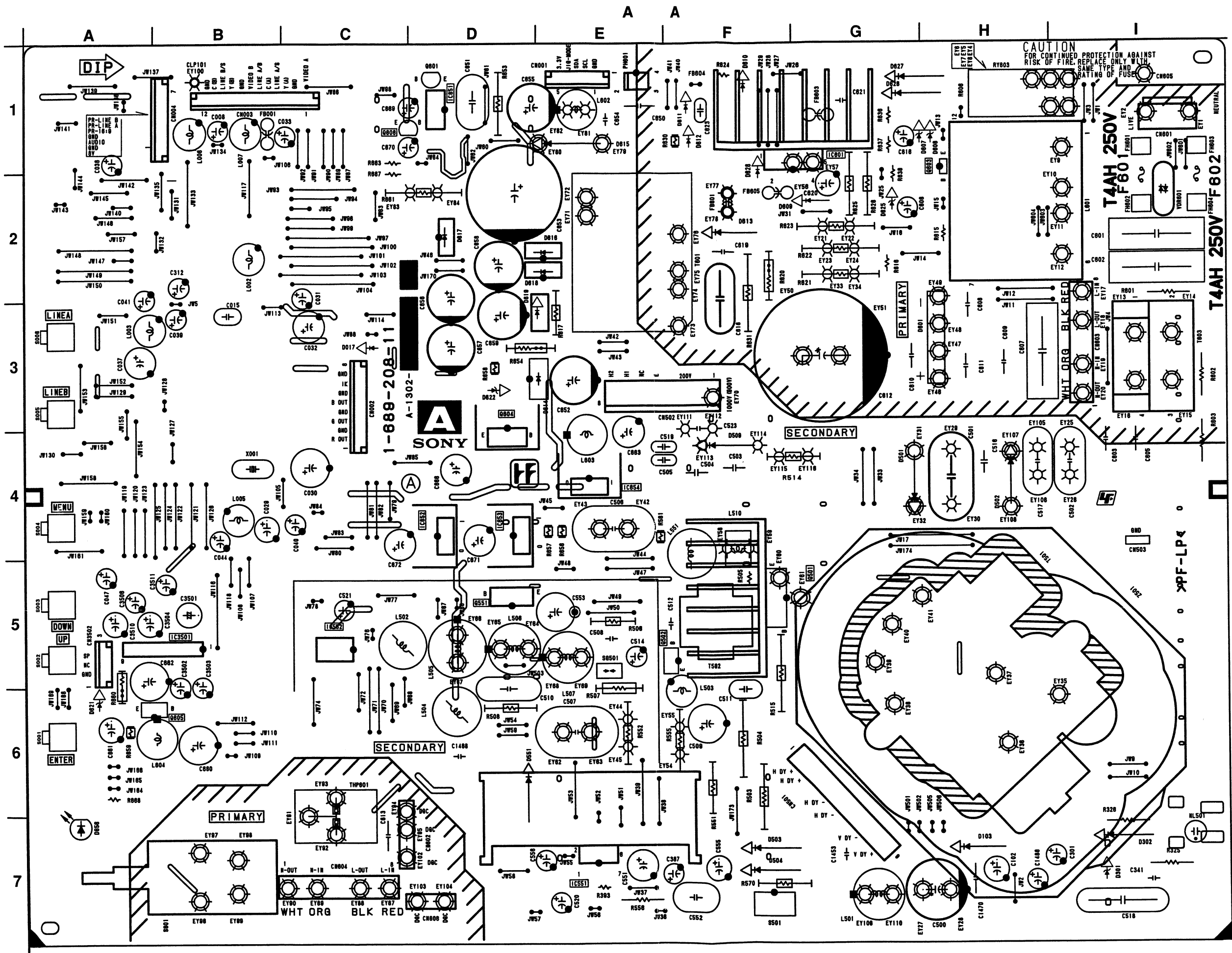
**A (1/3)      A (1/3)**





PVM-14L1/14L1MDE/20L1  
SSM-14L1/20L1





# A BOARD

\*: B SIDE

D003 \* A-1  
D004 \* B-4  
D005 \* C-4  
D006 \* B-4  
D007 \* C-4  
D009 \* C-3  
D010 \* B-3  
D011 \* B-3  
D012 \* A-3  
D014 \* C-3  
D015 \* B-4  
D017 \* C-3  
D018 \* A-4  
D019 \* A-3  
D020 \* A-1  
D021 \* A-1  
D022 \* A-1  
D023 \* A-1  
D102 \* H-7  
D103 \* H-7  
D301 \* I-7  
D302 \* I-7  
D312 \* B-2  
D313 \* A-2  
D314 \* B-2  
D315 \* B-3  
D501 \* G-4  
D502 \* H-4  
D503 \* F-7  
D504 \* F-7  
D505 \* E-4  
D506 \* E-5  
D509 \* F-4  
D551 \* D-6  
D552 \* D-7  
D601 \* H-3  
D605 \* H-1  
D606 \* H-1  
D607 \* H-1  
D608 \* H-1  
D609 \* G-2  
D610 \* F-1  
D611 \* F-1  
D612 \* F-2  
D613 \* F-2  
D614 \* E-3  
D615 \* E-1  
D616 \* E-2  
D617 \* D-2  
D618 \* E-2  
D619 \* D-2  
D621 \* A-6  
D622 \* D-3  
D623 \* C-2  
D625 \* G-2  
D626 \* G-1  
D627 \* G-1  
D628 \* F-1  
D656 \* A-7

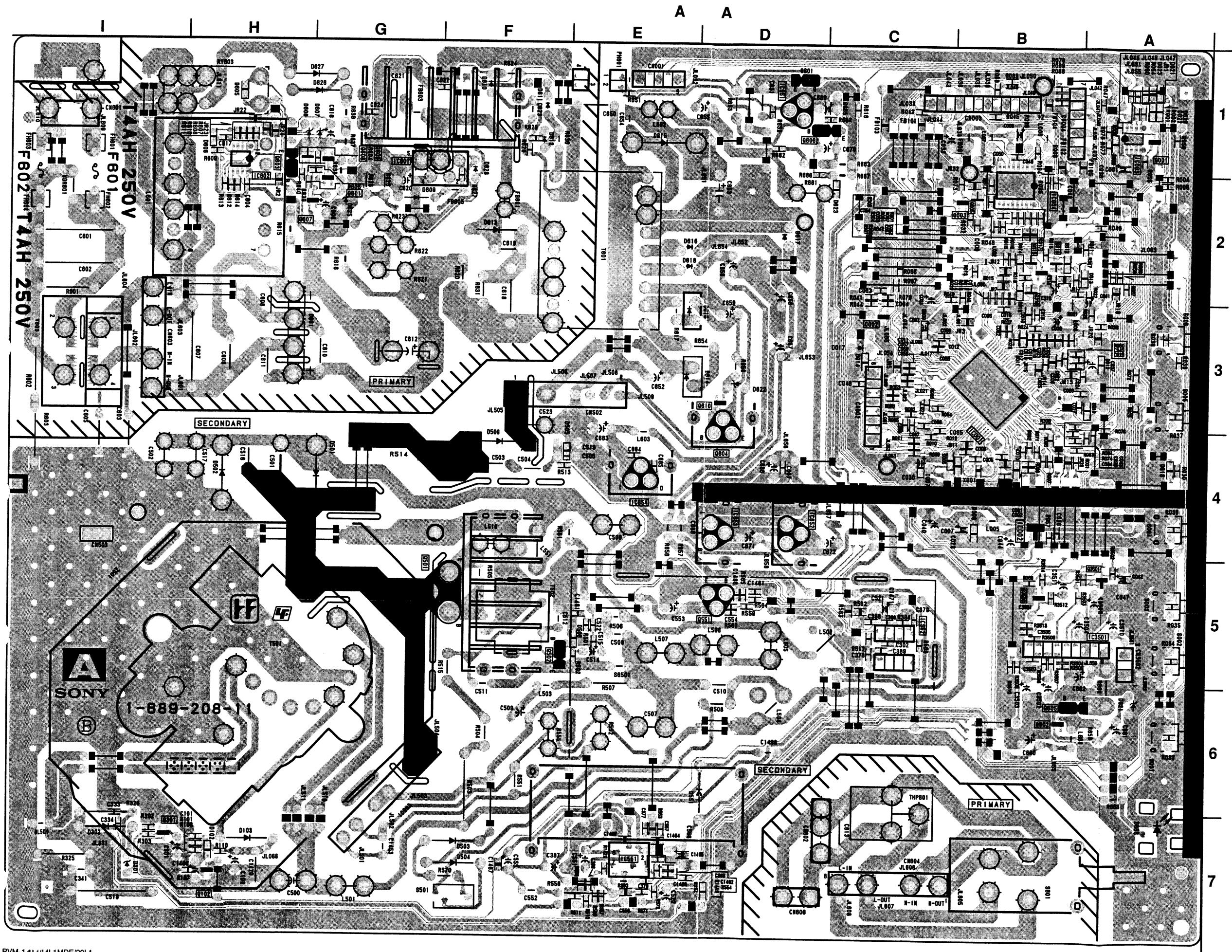
IC001 \* B-4  
IC002 \* B-4  
IC003 \* A-1  
IC004 \* B-2  
IC551 \* E-7  
IC552 \* C-5  
IC601 \* G-1  
IC602 \* H-2  
IC651 \* D-1  
IC652 \* D-4  
IC653 \* D-4  
IC654 \* E-4  
IC3501 \* B-5

Q001 \* A-1  
Q002 \* C-3  
Q003 \* B-2  
Q005 \* B-2  
Q102 \* H-7  
Q301 \* I-7  
Q314 \* B-2  
Q315 \* B-2  
Q316 \* B-2  
Q317 \* B-2  
Q501 \* G-5  
Q502 \* F-5  
Q551 \* D-5  
Q601 \* D-1  
Q602 \* B-6  
Q603 \* H-1  
Q604 \* D-3  
Q605 \* B-6  
Q606 \* C-1  
Q607 \* H-2  
Q608 \* G-1  
Q609 \* G-1  
Q610 \* D-3  
Q611 \* G-2  
Q3501 \* A-5  
Q3503 \* B-5

## A - A SIDE-

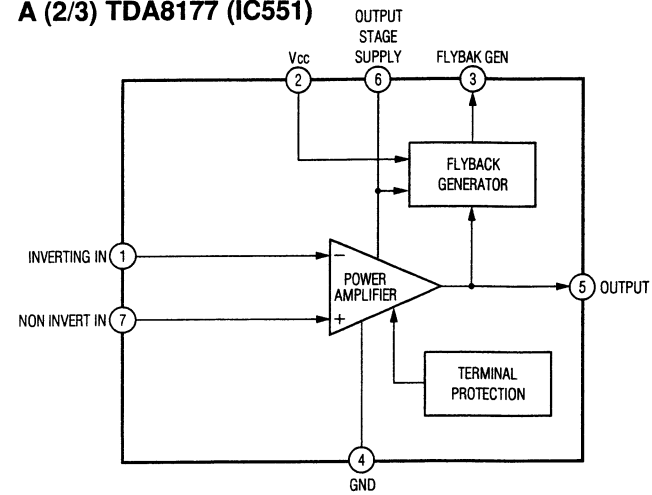
SUFFIX: -11

PVM-14L1/14L1MDE/20L1  
SSM-14L1/20L1

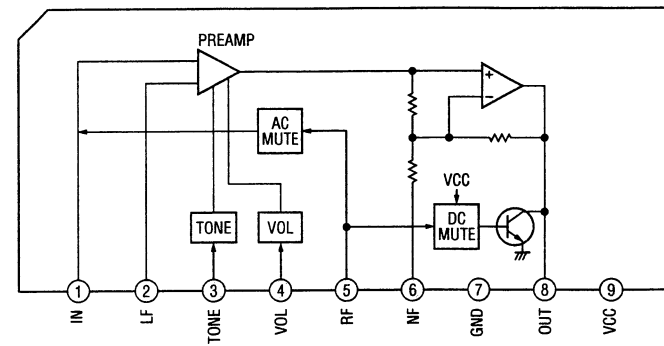


**A      A**

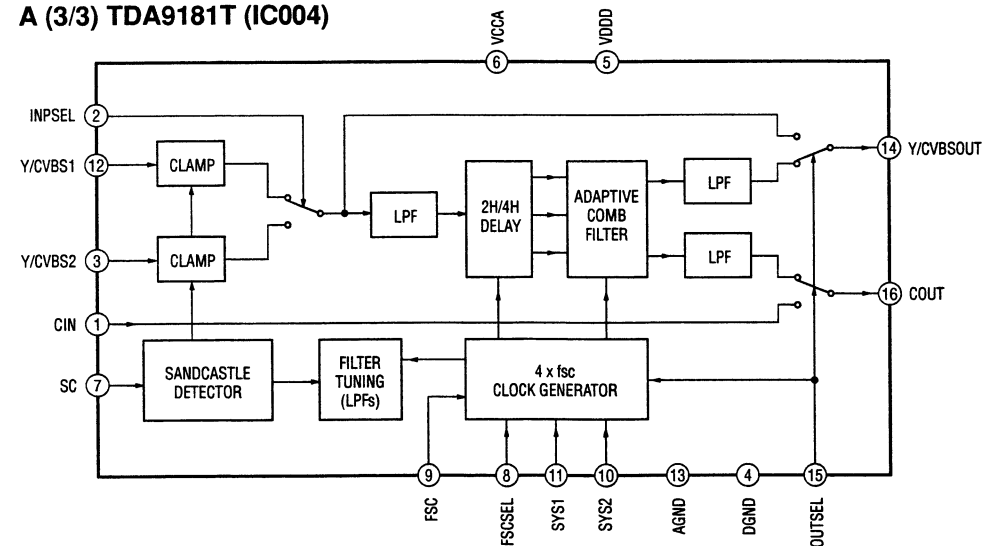
**A (2/3) TDA8177 (IC551)**



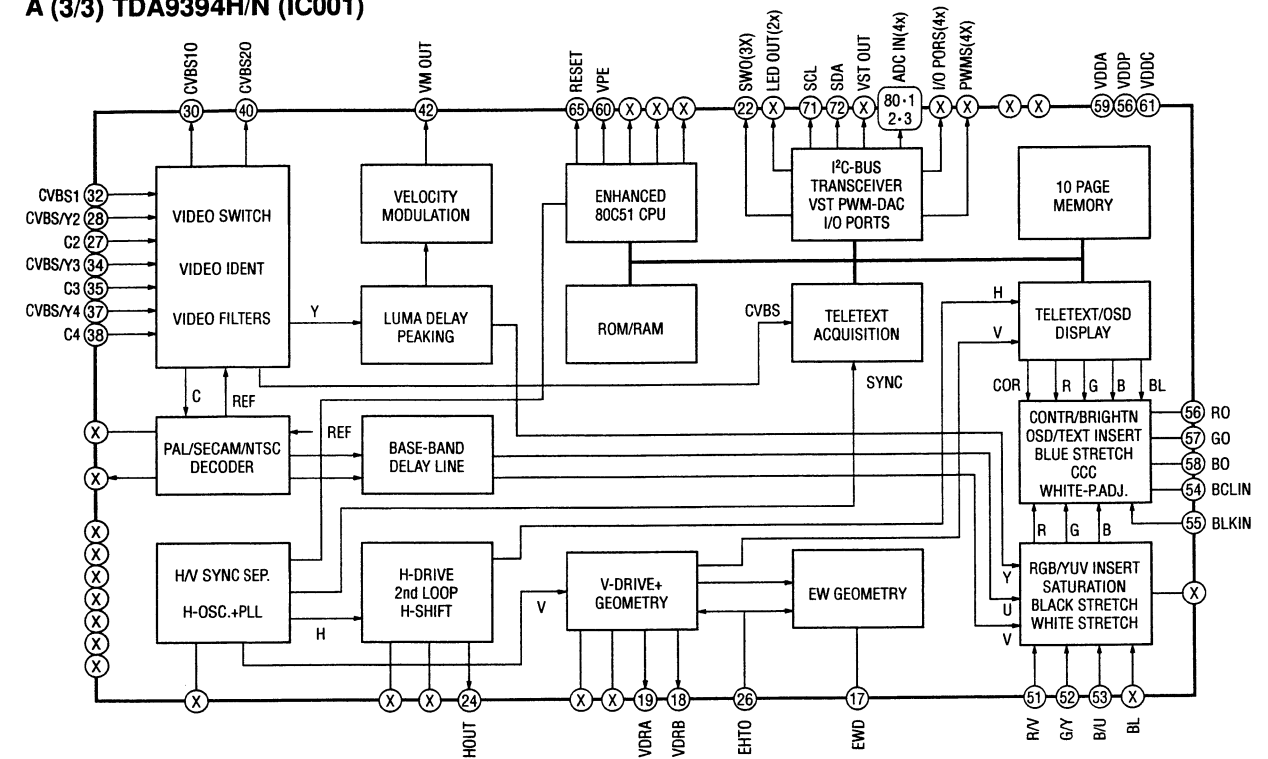
**A (3/3) AN5278 (IC3501)**

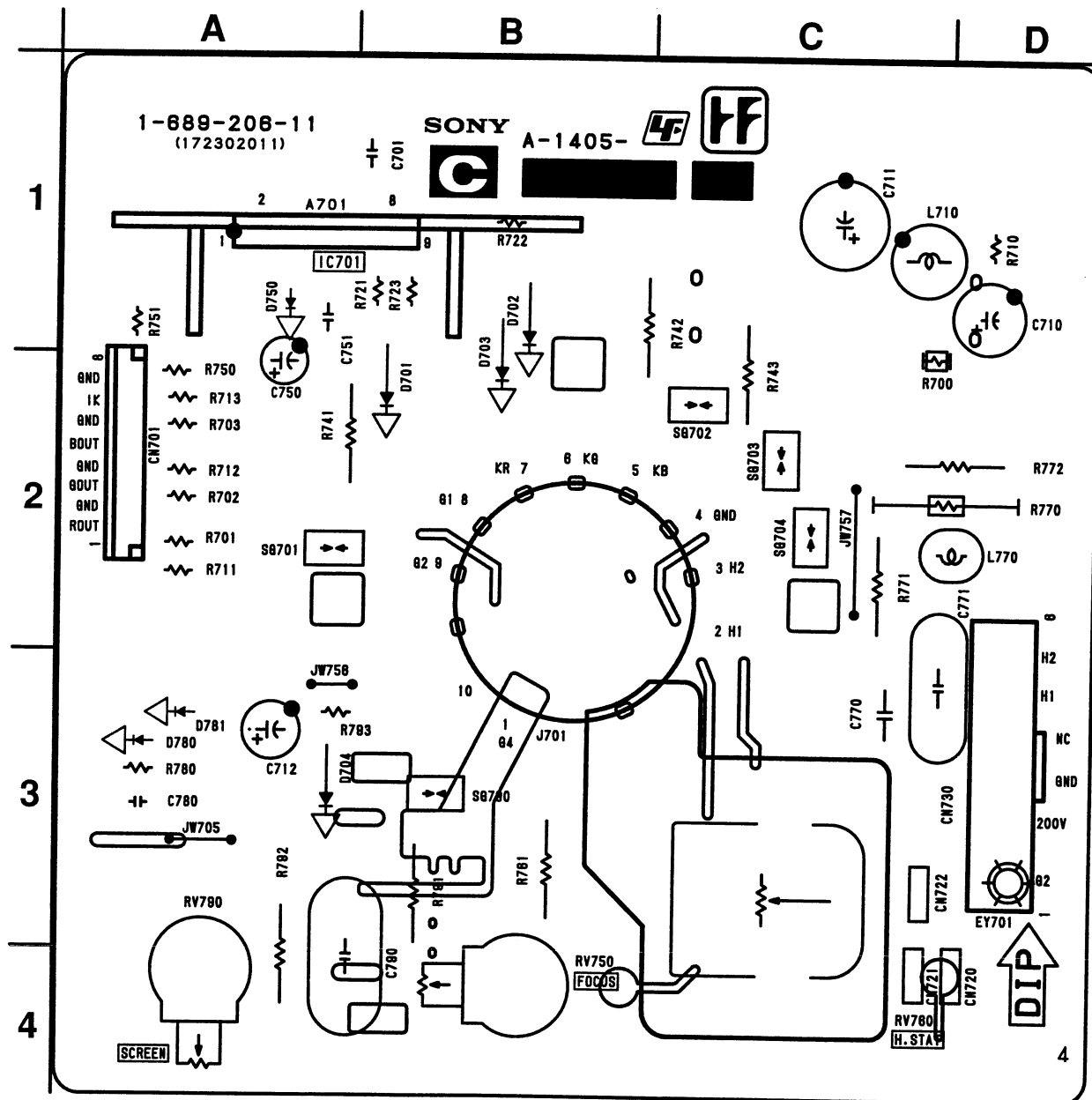


**A (3/3) TDA9181T (IC004)**



**A (3/3) TDA9394H/N (IC001)**

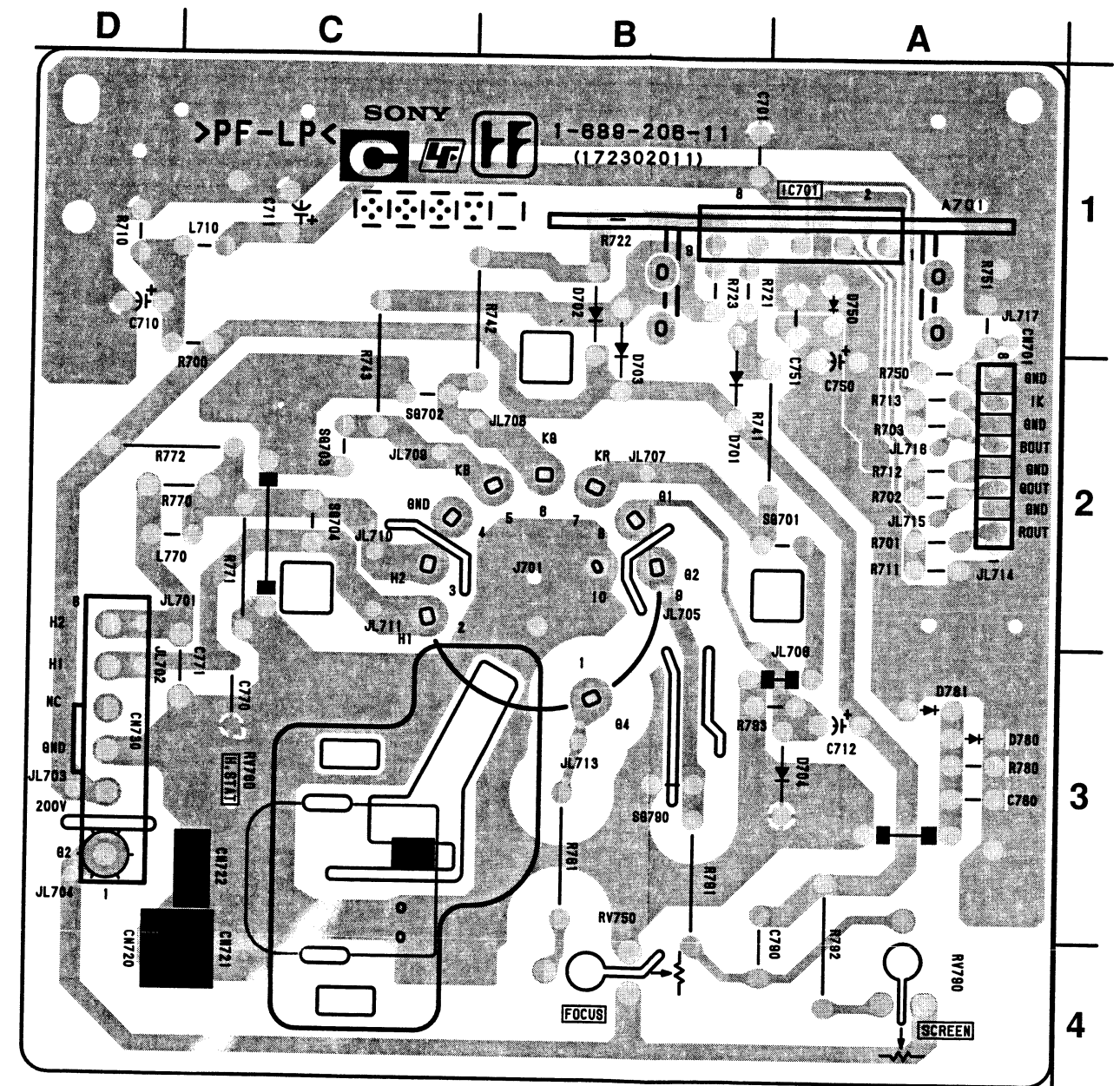




C -A SIDE-  
SUFFIX: -11

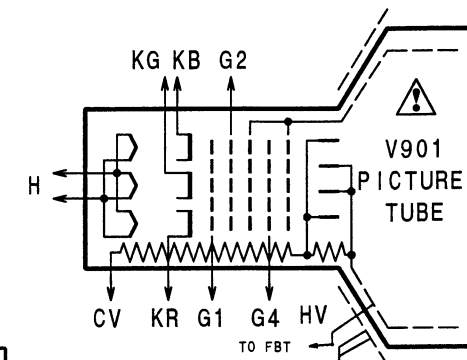
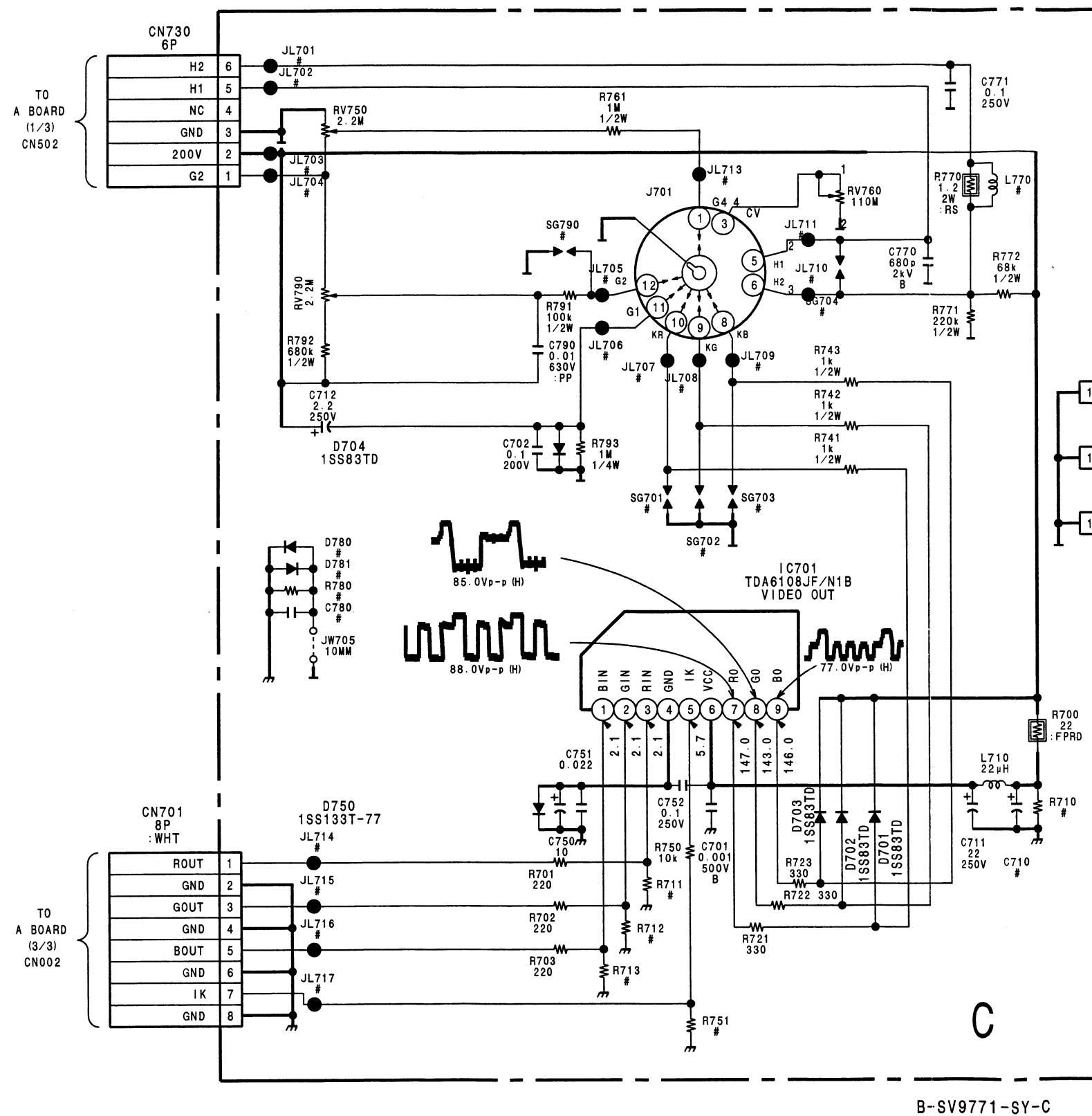
**C BOARD**  
\*:B SIDE

|       |     |
|-------|-----|
| D701  | B-2 |
| D702  | B-1 |
| D703  | B-2 |
| D704  | A-3 |
| D750  | A-1 |
| D780  | A-3 |
| D781  | A-3 |
| IC701 | A-1 |
| RV750 | B-4 |
| RV760 | C-4 |
| RV790 | A-3 |

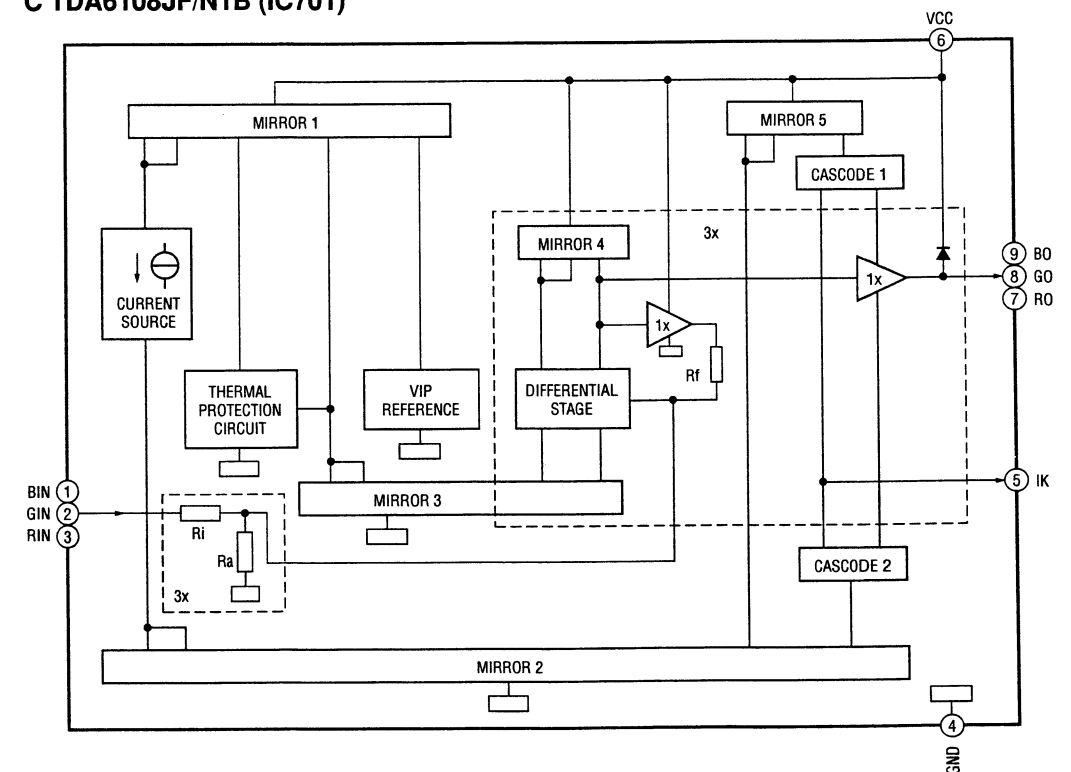


C -B SIDE-  
SUFFIX: -11

C (14 Inch) C (14 Inch)

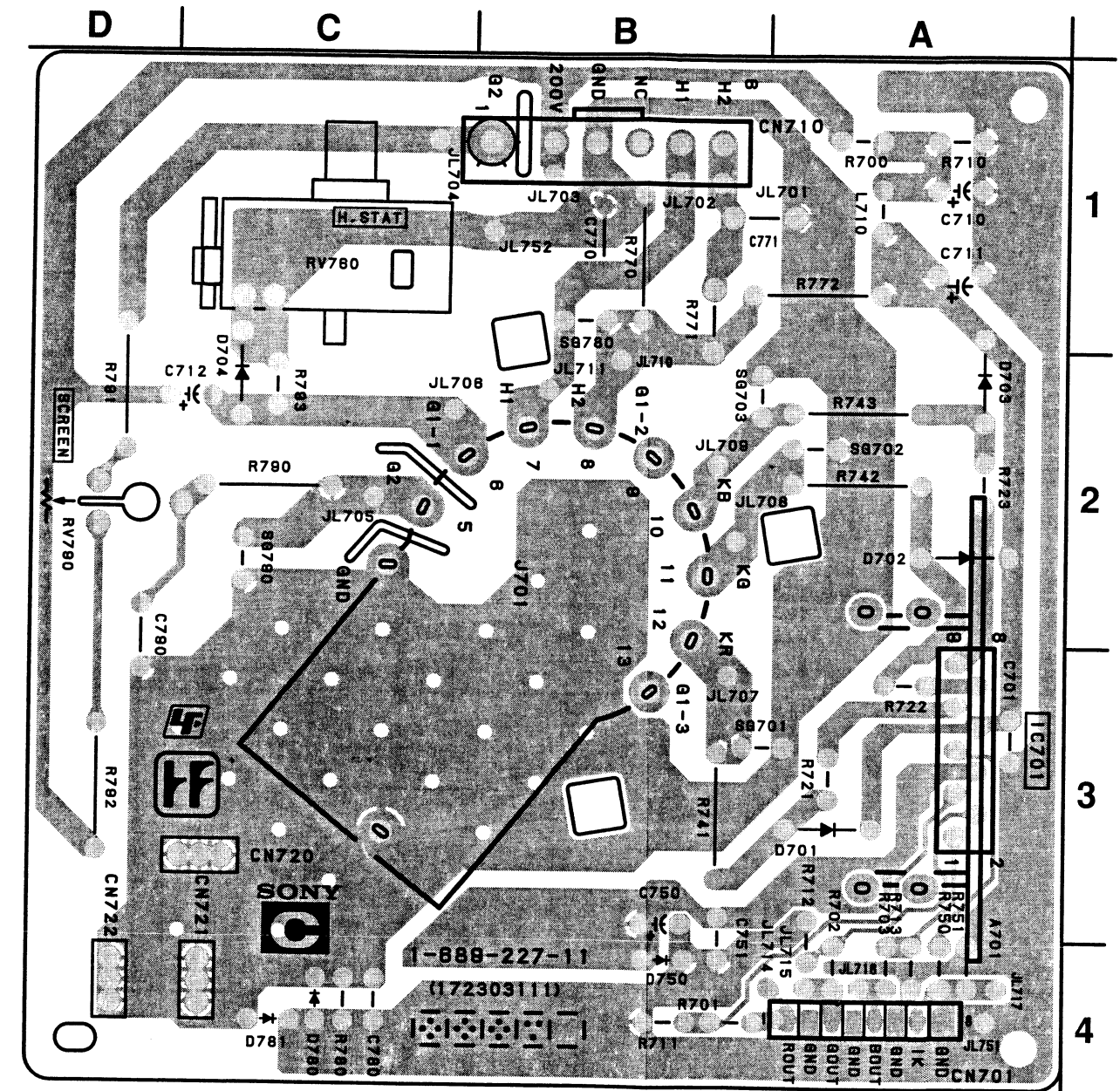


C TDA6108JF/N1B (IC701)



PVM-14L1/14L1MDE/20L1  
SSM-14L1/20L1

**C (20 Inch)**



**C -B SIDE-**  
SUFFIX: -11

\*:B SIDE

PVM-14L1/14L1MDE/20L1  
SSM-14L1/20L1

**C (20 Inch)**

